

ARCHAEOLOGIA:  
OR  
MISCELLANEOUS TRACTS  
RELATING TO  
ANTIQUITY.  
PUBLISHED BY  
THE SOCIETY OF ANTIQUARIES OF LONDON.  
VOLUME VI.



L O N D O N,  
Printed by J. NICHOLS, Printer to the SOCIETY;  
and sold at their APARTMENTS in SOMERSET PLACE; and by Messieurs  
WHITE, ROBSON, LEIGH and SOTHEBY, and BROWN.  
MDCCLXXXII.

DA 20  
A65  
V.6

ARCHAEOLOGIA  
MISCELLANEOUS TRACTS  
OF THE  
SOCIETY OF ANTIQVARY  
THE SOCIETY OF ANTIQVARY OF LONDON



Printed by J. Johnson, St. Paul's Church-yard, London.  
1805.  
Price 1s. 6d.  
Wm. Bland, Stationer and Printer, No. 10, St. Paul's Church-yard, London.



## C O N T E N T S.

- I. *ACCOUNT of some Roman Antiquities discovered at Exeter. By the President.* 1
- II. *Remarks on the Reverend Mr. William Harris's Observations on the Roman Antiquities in Monmouthshire and the neighbouring Counties of Wales; with an Account of some curious Remains of Antiquity in Glamorganshire. Address to the President, Council, and Fellows of the Society of Antiquaries, by John Strange, Esq. F. R. S. F. S. A. His Britannic Majesty's President at Venice.* 6
- III. *An Illustration of a Saxon Inscription remaining in the Church of Aldbrough, in Holderness, in the East-Riding of the County of York, in a Letter addressed to the Reverend Owen Manning, of Godalming, in Surry, B. D. and F. R. S. and F. S. A. by John-Charles Brooke, Esq. Somerset Herald, F. S. A.* 39
- IV. *Account of a singular Stone among the Rocks at West Hoadley, Suffex, by Thomas Pownall, Esq. F. S. A. and F. R. S.* 54
- V. *Observations on Reading Abbey, by Sir Henry Charles Englefield, Bart. F. S. A.* 61
- VI. *Observations upon a Passage in Pliny's Natural History, relative to the Temple of Diana at Ephesus. By Joseph Windham, Esq.* 67
- VII. *Remarks.*

- VII. *Remarks on the antient Pronunciation of the French Language, by the Rev. Mr. Bowle, F. A. S. In a Letter to the Rev. Mr. Norris, Secretary.* 76
- VIII. *Observations on the Plague in England, by the Rev. Mr. Pegge. In a Letter to Mr. Gough.* 79
- IX. *A further Description of antient Fortifications in the North of Scotland, by Mr. James Anderson, in a Letter to the late John Lind, of Lincoln's Inn, Esq.* 87
- X. *Observations on the vitrified Walls in Scotland, by the Hon. Daines Barrington. In a Letter to the Secretary.* 100
- XI. *Observations by Sir Henry Charles Englefield, Bart. on the antient Buildings at York, &c. In a Letter to the President.* 104
- XII. *An account of certain earthen Masks from the Musquito Shore. By Charles Rogers, Esq. In a Letter to the President.* 107
- XIII. *An account of some Druidical Remains on Stanton and Hurtle Moor, in the Peak, Derbyshire. By Hayman Rooke, Esq.* 110
- XIV. *Observations on the word Esnecca, in a Letter to Thomas Astle, Esq. F. S. A. By John Topham, Esq. F. R. and A. S.* 116
- XV. *Observations on the Roman Earthen Ware taken from the Pan-Pudding Rock, by Edward Jacob, Esq. F. S. A.* 121
- XVI. *Observations on the Roman Earthen Ware found in the Sea on the Kentish Coast, between Whitstable and Reculver on the borders of the Isle of Thanet, by George Keate, Esq. F. R. and A. S. In a Letter to Sir Joseph Banks, Bart.* 125
- XVII. *Nummi Palmyreni illustratio, per Rev. Carolum Godofredum Woide, S. A. S.* 130
- XVIII. *Four Letters from Beaupré Bell, Esq. to Roger Gale, Esq. on the Horologia of the Antients, with Mr. Gale's Answer.* 133
- XIX. *Account*

# CONTENTS.

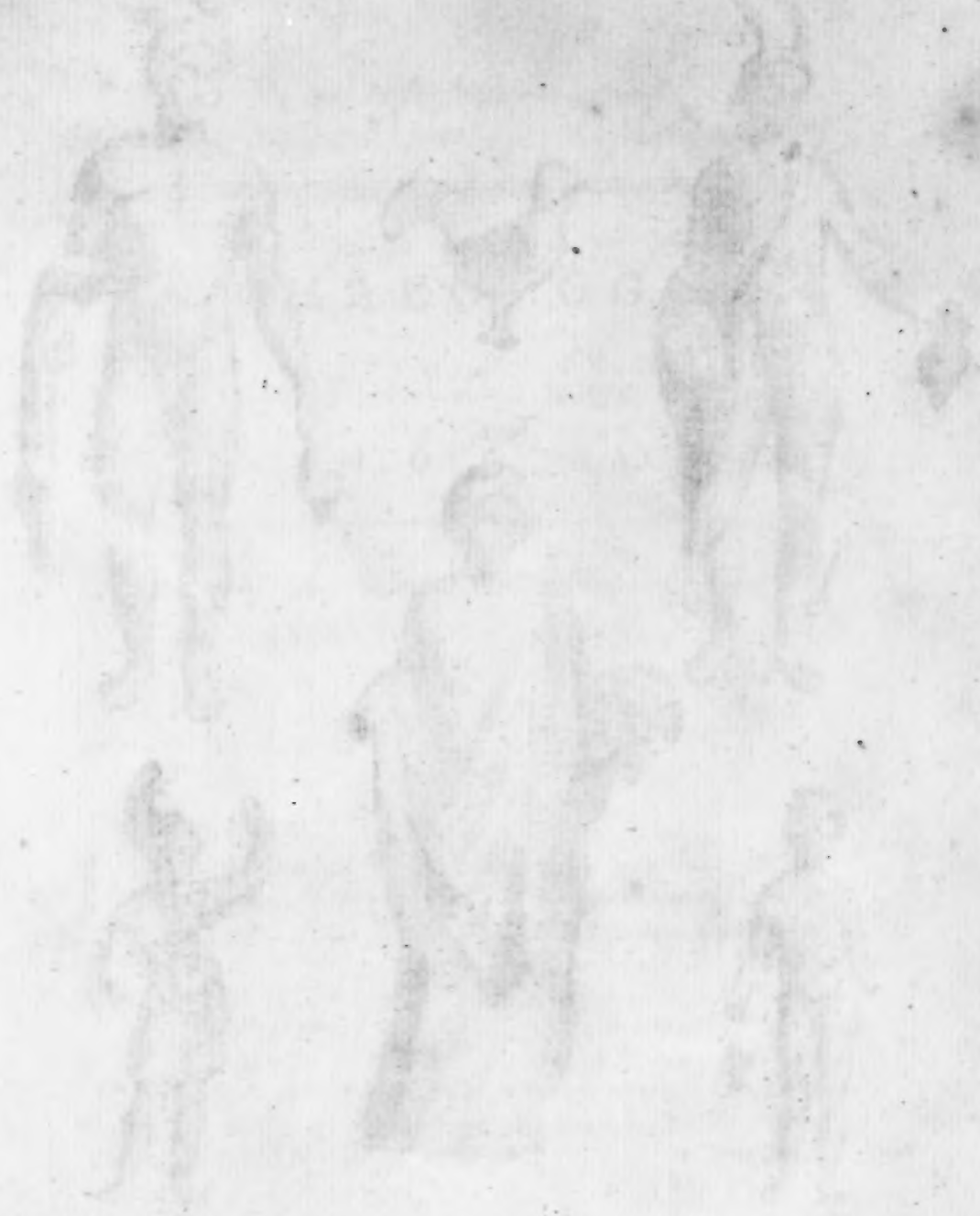
vii

- XIX. *Account of an Historical Monument in Brittany. By Mons. D'Auvergne.* 144
- XX. *The Commencement of Day amongst the Saxons and Britons ascertained. In a Letter to the Rev. Dr. Lort, by the Rev. Mr. Pegge.* 150
- XXI. *Remarks on the Sumatran Languages, by Mr. Marsden. In a Letter to Sir Joseph Banks, Bart. President of the Royal Society.* 154
- XXII. *Observations on the Indian method of Picture-Writing, by William Bray, Esq. In a Letter to the Secretary.* 159
- XXIII. *Observations on the Origin and Antiquity of Round Churches; and of the Round Church at Cambridge in particular. By Mr. James Essex, F. A. S.* 163
- XXIV. *A Description of an antient Picture in Windsor Castle, representing the Embarkation of King Henry VIII. at Dover, May 31, 1520, preparatory to his Interview with the French King Francis I. By John Topham, Esq. F.R.S. F.A.S.* 179
- XXV. *On the Cubical Contents of the Roman Congius. In a Letter from Henry Norris, Esq.* 221
- XXVI. *Some observations on Doctor Bernard's cubic contents of the Roman Amphora. By Henry Norris, Esq.* 227
- XXVII. *Sequel to the Observations on Antient Castles. By Edward King, Esq.* 231
- XXVIII. *Additions to Mr. King's account of Lincoln Castle. By Sir Henry Charles Englefield, Bart.* 375
- XXIX. *Observations on Rochester Castle, by the Rev. Mr. Samuel Denne. In a Letter to Mr. Gough.* 380
- XXX. *Governor Pownall on Roman Earthen Ware, and the Boundary-stone of Croyland Abbey.* 391
- List of Presents.*

ARCHÆ-







Printed by J. W. Smith, New York



*Penates found at Exeter.*

*Boissier del. Sc.*

[ 1 ]

---

**ARCHAEOLOGIA:**  
OR,  
**MISCELLANEOUS TRACTS, &c.**

---

**I. Account of some Roman Antiquities discovered at  
Exeter. By the President.**

Read Feb. 11, 1779.

GENTLEMEN,

**I** HAVE the honour to lay before the Society some elegant Roman Penates in bronze, which were discovered last July in digging a cellar under the house of Mr. Upham, situated in the High street at Exeter, at the corner of Broad-gate, which leads from that street to the Close of the Cathedral Church. They were found within a very narrow space, and not more than three or four feet below the present pavement of the street.

THEY consist of five figures, all of them executed in a taste far superior to the generality of statues found in Britain; it is  
VOL. VI. B therefore

therefore reasonable to conclude that they were the workmanship of foreign artists and of an early period.

THE first a female figure [*a*], four inches and half high, is dressed in a long loose garment covering her whole body: her hair is adorned with a diadem like those which appear on the heads of Livia and Trajan's Queens; her hair, tyed behind, falls down her back. Her left hand is broken off; in her right she holds a cornucopia of fruit. The sharpness and folds of her drapery are so corroded with rust, that they exhibit very faint traces of the original elegant workmanship.

ON comparing this figure with those represented in Montfaucon's Collection [*b*], one of the Goddesses Ceres appears perfectly correspondent to this statue both in the head-dress and drapery; she has also a cornucopia, but holds it in her left hand, her right having a bunch of poppies; both these being emblems of that Goddess.

BUT the same volume exhibits a statue and some figures on the reverse of medals, representing the Goddess Fortune in the same dress, and with a cornucopia in her right hand. In fact, this emblem is too equivocal to determine the character of this statue. For there is hardly a virtue represented on the Roman medals in the character of a Goddess which does not bear the cornucopia, to represent the plenty which is the attendant or effect of that particular virtue. It appears with the figures of Salus, Pax, Concordia, Hilaritas, Liberalitas, Felicitas, Æquitas, Æternitas, and Moneta. The countries of Italy, Africa, and the city of Alexandria, bear it on account of their fertility. But in almost all these figures we find the cornucopia placed in the left hand, possibly because the grace of the figure depending on the attitude of the right arm; the most distinguished emblem, or that which admitted the most graceful extension of that arm,

[*a*] Fig. 1. in the plate.

[*b*] Suppl. tom. I. pl. LXXIII. fig. 5.  
was



was generally placed in it; but the form and size of the cornucopia seemed to require that it should be placed close to the side, and therefore was put in the left arm.

Two statues of Mercury, one four inches and a half long, the other only four inches and a quarter, were found at the same time and place. The former [c] is a perfect and well proportioned figure; instead of a bonnet, or Petasus, the wings on his head grow out between his hair, as they do in some statues represented by Montfaucon, and he has no wings on his feet. A long loose garment, doubled on his left shoulder, passing under the upper part of the arm is brought over it below the elbow, and hangs halfway down his leg. His right hand, though turned upward, as if meant to contain something, is empty; his left holds a purse.

This figure bears the greatest resemblance to a statue of Mercury represented by Montfaucon [d], as well in the attitude and form of the purse, in the wings on the head, and the want of them on the feet, as in the size and folds of the garment, which is there doubled on the opposite shoulder.

The other statue of Mercury [e] has the Petasus, and wings on his feet: he is more clothed than the former figure, his garment entirely covering his right arm and side, and reaching down almost to his feet. His left hand is in a similar attitude, but the shape of the purse in his right hand is different; there are statues of Mercury in Montfaucon resembling this figure also. That marked N° 5 in the last mentioned plate is without his petasus, but has wings on his feet, and a purse of the same form. The figures N° 1, 2, and 4, in the following plate, are also similar; the left hand is generally empty. This second figure of Mercury has suffered both in the limbs and drapery by the

[c] Fig. 2. in the plate.

[e] Fig. 3.

[d] Tom. I. pl. LXVIII. fig. 3.

moistness of the earth in which it has lain, but is not without original merit. There were various methods of representing this Deity, some of those in Montfaucon exhibiting him with, and others without wings to his feet. The bronze cock found with these Penates is justly supposed to have belonged to one of these statues, as it denoted vigilance, and is represented as an emblem of Mercury in three or four gems engraved in the same volume of Montfaucon. There was also a square and a round brass pedestal accompanying these statues, and such we find represented under the statues of Mercury in the forementioned plate of Montfaucon.

THE fourth figure [*f*], two inches and half high, represents either Mars or a Roman warrior, compleatly armed with a high-crested helmet, coat of mail, and boots covering the whole front of the leg. The right arm erect probably held a sword, and the left a shield, but both are truncated at the hands.

THE last and most elegant of these figures [*g*] is only two inches and a quarter in height. From the delicacy of its make, the turn of countenance, and the dress of the hair, it seems applicable only to Apollo, for it is undoubtedly a male figure. The right hand is broken off at the elbow; the left holds something like a linen cloth, but so covered with rust that it is impossible to ascertain its form.

THESE five Penates were found with, or rather surrounded by a considerable quantity of large oyster-shells, which from their size and form are known to come from a village on the sea shore, called Budleigh, twelve miles S. E. of Exeter. There were also in the same mass various fragments of urns, of different forms, sizes, colours, and kinds of earth; some of a dark brown, and others of a bright red; the latter in particular very highly glazed, and much adorned with fancied borders and hu-

[*f*] Fig. 4.

[*g*] Fig. 5.

man

man figures executed in a very elegant taste. But the havoc made in these urns must not be attributed to the workmen who were employed in digging the cellar; for the space wherein they were confined, and the manner in which they were dug up, prove that the confusion had been made at some former period; and Mr. Upham, the owner of the house, was too attentive to their work after the first appearance of the statues, to suffer them to proceed without a constant inspection: he caused them to continue their search, and discovering a large Roman tile, expected to find it the covering of a Roman urn, but to his great disappointment found it lay only on the natural earth; which certainly was not its original position; but it must have been thrown there together with these broken urns; which then lay included within a space too narrow to have contained them if they had been entire. It is also remarkable that no medal or coin of any kind was found with them, though the owner caused the rubbish to be carefully examined and sifted. But on the opposite side of the street, when the foundations of Mr. Dennis's house were dug two years ago, some small remains of a tessellated pavement were discovered, with a few Roman medals, one of them a Trajan in large brass.

TOGETHER with these antiquities were also found some fragments of horns, bones, teeth, cinders of glass and metal, and some quantities of burnt wood, of all which specimens are here exhibited for the inspection of the Society.

I am, Gentlemen, &c.

JER. MILLES.

*Harley Street,*  
Feb. 10, 1779.

II. *Remarks on the Reverend Mr. William Harris's Observations on the Roman Antiquities in Monmouthshire and the neighbouring Counties of Wales; with an Account of some curious Remains of Antiquity in Glamorganshire. Addressed to the President, Council, and Fellows of the Society of Antiquaries, by John Strange, Esq. F.R.S. F.S.A. His Majesty's Resident at Venice.*

Read Jan. 28, 1779.

**I** DID myself the honor, some time ago, to submit to the judgment of this most respectable Society the result of my antiquarian researches in Monmouthshire. It has since been an agreeable surprize to me, to find the same subject treated by the Reverend Mr. William Harris, in his observations on the *Julia Strata*, and other Roman remains in South Wales, inserted in the second volume of the *Archaeologia*, since this Gentleman's observations seem to confirm the principles, which I ventured to adopt in regard to the Romans in Wales, by additional proofs, not only respecting Monmouthshire and Brecknockshire, but with regard also to the other neighbouring Welsh counties. As the perusal of Mr. Harris's Paper has given me occasion to make some particular remarks, I think proper to communicate them to the Society, as a supplement to my former



Effays, and a further illustration of this curious subject. I shall also add such antiquarian observations as I was able to make in my tour through the neighbouring county of Glamorgan.

IN my journey to Wales, I crossed the Severn at Purton passage, and consequently had not an opportunity to observe the *Trajectus Augustæ*, from whence *Aust* passage was probably named, and the remains of the Roman camp at Sudbrook. Mr. Harris fortunately supplies this deficiency, and, by his judicious observations, though contrary to the common opinion, makes it very probable, that the *Trajectus Augustæ* crossed the Severn obliquely, from about three miles below Oldbury in Gloucestershire, to Charston, or the black rock, which is three miles lower down the river, on the opposite side, at, or near, the landing place of the new ferry. Mr. Harris asserts, that the Roman camp at Sudbrook was originally square; which does not agree with the account given of it by Dr. Holland, in his notes upon Sudbrook, as I before observed [a]. But however that may be, the difference of opinion is easily accountable, if we consider the continual devastation, to which this camp has ever been exposed, by the washings of the Severn. Speaking of the remains at Caerwent, Mr. Harris is of opinion, that the old walls seen there are of Saxon origin, though he observes, that they have frequently Roman bricks interspersed among them; especially the wall on the south side of the camp. To confess the truth, I did not observe these bricks; and considered the remains of the stone walls at Caerwent as Roman, from the perfect similitude of their structure with other such walls avowedly of Roman origin, and which are not uncommon with us, especially in the northern stations *per lineam valli*, and elsewhere. In regard to the particular structure of these walls, I shall only

[a] Account of Monmouthshire.

add, that Mr. Harris himself tacitly admits, that the remains of the stone wall at *the Gaer* near Brecknock are Roman; and I before observ'd, that these remains are exactly similar, in their structure, to those of Caerwent. The same is also observable of the old walls of the Roman Camp at *Cwm*, near Llandrindod, in Radnorshire [b], and in those of *Segontium* near Carnarvon, in North Wales. If these remains, therefore, are to be admitted as Roman, of which, I think, there can be little doubt, for the reasons before mentioned, why are not the old walls at Caerwent to be equally considered of Roman origin, since they perfectly resemble them? For supposing them Saxon, we may with equal reason consider as such all similar remains, that are found in the different Roman camps throughout the island; which I presume can hardly be allowed. If any reasonable difficulty might be raised against the Roman origin of the old walls of Caerwent, I should imagine it must be about the South wall only, where the towers are; concerning which I must confess not to have been without my doubts. But the western wall, where no such towers are seen, appeared to me indisputably Roman; and, I believe, the most considerable remain of the kind throughout the principality.

MR. HARRIS, in his particular remarks on the *Julia Strata*, which pass'd through this country, makes it begin at Caerwent only; whereas I should imagine it to have begun at the landing place at Sudbrook camp; especially as there appear to be some vestiges of a Roman causeway on that side of Caerwent, near Creek, as I before observ'd in my account of Monmouthshire. Besides, as the distance from Sudbrook to Caerwent, a *Trajectu ad Ventam*, is formally settled by the Itineraries, being 9. m. p. according to *Antoninus*, we may reasonably presume, that

[b] *Archæologia*, vol. I. p. 302.

some Roman road led that way, and why not the *Julia Strata*, considering the importance of such a communication with the eastern road and Roman stations on that side of the Severn? Mr. Harris supposes, that the *Julia Strata* led over the small river Throggy, about a quarter of a mile due west towards Carleon, but not in a strait line. But from the course of the country, as well as from Mr. Lethieullier's remark, and actual vestiges of this road, especially the *dorsum elatum*, lying in a direct line at right angles through the camp at Caerwent, it is to be presumed that the road continued strait; as Mr. Harris observes it does over Stallington Down near Cowbridge. Indeed, the Roman roads are known so to do generally; unless prevented by some unsurmountable natural difficulty, which does not occur to me in the present case, from my recollection of most parts of the country in question, which, on the contrary, seems rather adapted particularly for a strait road. Perhaps a side road might lead, from the main one, down to Caerleon, to the west of the camp at Caerwent, and probably might not much differ from the present road; since the immediate northern descent from the camp into the valley, is too steep to suppose it to have had that direction; besides the necessity of its course westward, and the actual vestiges of it before mentioned. But this point also must be determined by further observations, which probably will not be wanting. For though Mr. Harris pretends that the *Strata Julia* is not to be traced like other Roman roads, by a bank thrown up, or pavements, or causeways, yet some vestiges of this kind certainly remain. Besides, Mr. Harris himself says, that, at the west end of Stalling down, half a mile east of Cowbridge, you may see this road running in a strait, broad line, on the eminencies it passes over, seven computed miles, and terminating in Newton down; which is surely a ta-

cit acknowledgement, that some work of art is at least discernible. The Roman urns, containing ashes and coins of the lower Empire, found at *Lanvair is Coed*, near Caerwent, is a further addition to the discoveries in these parts, and for which we are also indebted to the care of Mr. Harris. I shall now proceed to consider this Gentleman's observations on the famous neighbouring station of *Ifca Silurum*, or old Carleon.

MODERN Carleon, according to Mr. Harris, lies more to the east, than *Ifca Silurum* did, though he observes, that it occupies part of the antient city, and perhaps its eastern suburbs. On tracing the old walls, of which the foundations in many places still remain, at least sufficiently to ascertain their directions, it appeared to me, that a great, and, indeed, the principal part of the present Caerleon is situated within them; the western wall being just without the town; those to the north and east sides passing through the skirts of it; while the river bounds it to the southward. Mr. Harris, however, considers these walls also as Saxon; observing only, that Roman bricks are seen in them, as in the walls of Caerwent. I must here again confess, that these bricks did not occur to me, and I have already given my reasons, why I think the walls themselves of Roman origin [e]. Mr. Harris further observes, that old Carleon seems to have extended west of the modern town, and over the river Usk, beyond the house of St. Julian, which had lately been converted into a farm house. Upon this occasion, as I have since been informed, there were found some old massy iron chains, supposed to have served to prevent vessels from entering the town up the river Usk. The road to this river, on the west side of the town, also abounds with Roman bricks, and various other remains of antiquity; while the name of the parish, which is Langattock,

[e] Account of Monmouthshire, Archaeol. vol. V.

i. e.



i. e. *sanum Catoci, juxta* Carleon, seemingly confirms this assertion. But I am apt to think, that most of the buildings on that side were *extra moenia*; as appears, indeed, from the direction of the western wall, of which there are still considerable remains above ground. For instance, the Amphitheatre, which Mr. Harris has particularly described, is just without this wall; besides the vestiges of other public buildings, as baths, sudatories, &c. &c. In 1755, in a field near the river, west of the bridge, was laid open one of these bagnios, or sudatories, in which were smoaked bricks, and small pillars of a circular form made of bricks four inches thick, and fourteen inches in diameter, heaped one on the other, like so many cheeses. The same kind of round brick pillars, though plastered over, has also been in use in Italy, among the modern architects, particularly Palladio, some of whose buildings at Venice have such pillars. Mr. Harris likewise mentions other discoveries near this bath; and also speaks of another bath, found in an adjacent field, but which the owner would not suffer to be opened. This Gentleman, though more diligent in his inquiries, was not more successful than me in his endeavours to discover the subterranean vaults and caverns near Carleon, mentioned by Dr. Gale [f]; though such, however, may perhaps exist in the adjacent hills, on the *ultra pontem* side, as Mr. Harris says the children call it to this day, and where scattered ruins are often seen.

AMONG the acquisitions made by this Gentleman, towards illustrating the Roman antiquities of Monmouthshire, besides Mr. Hanbury's collection of medals and other curious remains, the antique cornelian seal of Ceres, found at Carleon, about the year 1750, is deservedly esteemed. But Mr. Harris was not more fortunate than me in making any further discoveries of

[f] Antoninus's Itinerary, pag. 96.

inscriptions at Caerleon; though I am persuaded, that time, and diligent search, may bring others to light; since many were formerly found there; and the importance of the place gives just reason to expect more. About half a mile to the north side of Caerleon, on a hill, Mr. Harris describes the remains of a camp with double ramparts, which he supposes to have been the *castrum* of the second Legion; and, indeed, there is much greater reason for such an opinion, than to suppose, with Mr. Salmon, that *Venta*, or Caerwent, served Caerleon in that capacity. Such accessory camps, whether designed for *castrum* merely, or for speculation and additional strength, as is most probable, were generally common to the more important Roman stations, especially when situated in a plain immediately under hills; in which situation, indeed, they became unnecessary. I observed a very perfect camp of this kind on an eminence near *Avanches* in Switzerland, the antient *Aventicum*, which was the principal station of the Romans in that country, and moreover greatly resembles *Isca Silurum* in its situation. Other similar Roman camps are also observable in Switzerland. The most remarkable one that occurred to me in my tour of that country, was on the summit of one of the highest mountains in the Canton of Appenzell, and which intirely commanded a vast tract of the vale of the upper Rhine, above the lake of Constance, between the Swiss and the Grison Alps. We are indebted to Mr. Harris for the discovery of the camp called *Craig y Gaekig* near Usk, which, from the name, and Roman coins frequently found there, may, perhaps, be presumed of Roman origin. The curious British sepulchral inscription, formerly illustrated by Dr. Wotton, and of which Mr. Harris seems to have given us a very exact copy, is a further strong proof of the long residence of the Romans in these parts, from the manifest corruption of the language of it, by that dialect. But when this Gentleman asserted,

asserted, that no traces of Roman antiquities were ever seen, or heard of in the memory of man, at Abergavenny, universally allowed to be *Gobannium* of the Itinerary, he forgot the *balneum*, or sudatory, particularly mentioned by the learned Mr. Horsley in his *Britannia Romana*; though few, if any, certain vestiges of such a building seem to remain there at present, as I observed in my former account. We are indebted to Mr. Harris for some further illustration of the *Gaer* near Brecknock, which he justly considers as a Roman station, and would fix *Magnis* there, for the same reason that inclined me to fix it at *Cwm* in Radnorshire, with which newly discovered station, perhaps, this gentleman was not acquainted. He further mentions the discovery of a number of Roman coins at *Devynnog*, only three miles distant from the *Gaer*; and also near Old Castle, at the northern extremity of Monmouthshire, under the Hatteral hills, or *black mountain*, as it is called; where Dr. Gale would fix *Bleffium* of Antoninus; and near which, on Campston hill, Mr. Harris likewise observed a large camp.

On considering these authorities, the name of Old Castle, and particularly the mountainous, remote, and unfrequented situation of that part of the country, it occurred to me, that there might very possibly still exist some further remains of Roman antiquity, at least in the neighbourhood. I therefore wrote to Mr. Hay, whose usual abode at Brecknock is not very distant from Old Castle, desiring him to favor me with such information as he could procure on the subject. He accordingly soon after acquainted me, that although there be at present scarce any visible remains precisely at Old Castle, yet that, a few years ago, as he was credibly informed, some considerable vestiges of a tessellated Roman pavement were also found at a place called *Cored-gravel*, which is above two miles to the north of Old Castle. This discovery, though it does not sufficiently confirm Dr. Gale's  
opinion,

opinion, in fixing *Blestium* of Antoninus in that part of the country, yet it seems strongly to argue some temporary settlement of the Romans there; especially supposing the neighbouring camp observed by Mr. Harris to be of Roman origin, as I conclude he took it to be, not mentioning otherwise, and as, indeed, it probably may be. From the elevated and advantageous situation of this spot, which commands a most extensive view southward, and towards the east and west, particularly over the adjacent parts of Herefordshire and Monmouthshire, there is all the reason to suppose, that the Romans had, at least, an exploratory, or summer camp there. It is further well known, that a part of the Roman luxury was to carry *tesserae* with them on the removal of their armies, to ornament at least the *prætorium* of their general, which they might thus easily do, even in the most transitory stations. Another observation that occurs to me in regard to the present subject, is, that as there avowedly were many Roman stations in the three contiguous counties of Hereford, Monmouth and Brecknock, and as *the black mountain* occupies a very considerable tract on their confines, extending about twenty miles in length, if I mistake not, from east to west nearly, it is hardly to be presumed, but that the Romans had stations there; and, of course, communications over the country. But this tract is seldom visited but by sportsmen and shepherds, and is therefore little known; though it would probably afford important discoveries, in the antiquarian way, to a curious and intelligent observer, who has the advantage of residing in its neighbourhood; such a tract of desert mountain being ill calculated for the cursory researches of a traveller.

THOUGH there are few visible certain remains of Roman antiquities in Glamorganshire, yet the establishment of the Romans in that, as well as in the neighbouring counties before mentioned, seems not easily to be disputed. And, indeed, if the opinion  
of



of the oldest antiquaries is absolutely to be taken, these ancient masters of the known western world had more settlements in this county than in any other throughout the principality. Baxter has fixed *Jupapania*, the *Jupania* of the monk of Ravenna, at Caerdiff; which still retains the generally received mark of its Roman origin in the monosyllable *Caer*. *Ratoflabius* also, as Baxter observes, is acknowledged in the Tave that washes Caerdiff. And as either Somner, or Lambard, I forget which, traces the Romans in Rumney, or Romney, in Kent; so other etymologists might, perhaps, derive the name of the neighbouring river Rumney, or Rhemuy, as the Welsh call it, that divides Glamorganshire from Monmouthshire, from the same origin. But here a difficulty would occur in the signification of the British word *Rhemny*, which implying to divide, as Camden observes, seems to account for the etymology upon a more natural principle. Cowbridge is supposed to be the *Punctuobice* of the monk of Ravenna, or *Pentuobice*, according to Dr. Gale [g], who also traces the etymology in the modern name of the town. *Bovium*, or *ad latus*, which all antiquaries confine to Glamorganshire, is by Camden placed at Cowbridge, probably from the analogous signification of the two names; but other antiquaries, with more apparent reason, fix it at Boverton, a few miles south of Cowbridge, near the sea coast, and where Roman coins have frequently been found. The similitude of the ancient and modern names, and the appellation *ad latus*, which, probably, was only additional, *Bovium ad latus*, i. e. *ad latus maris*, seems strongly to confirm this opinion. From the many ruins I observed about there, Boverton seems also formerly to have been a much more considerable place. Mr. Harris fixes *Bovium* at Lantwit Major, between Cowbridge and Boverton; on account

[g] Anton. Itin. pag. 125.

of the ruinous condition, and apparent antiquity of that place. But, by the same argument, he might have settled it at other neighbouring places in this county; nor is there any proof in favor of Lantwit Major, the antiquities of which, however curious, being of much later date than the Roman times, as I shall have occasion to observe hereafter. Some antiquaries have also fixed *Bulaeum Silurum* of Ptolemy at Caerphilly; probably either on account of the name, or the immense fabrick of the castle there, and the silence of history in regard of its origin. But neither are there here any real proofs of a Roman origin; which opinion my learned friend the honourable Mr. Daines Barrington seems also to have sufficiently confuted in an express and curious treatise on the subject; and I have also offered my conjectures in a former paper about placing *Bulaeum Silurum* elsewhere [b]. Glamorganshire may, however, boast of other Roman stations, besides those already mentioned, and seemingly on good authority. Though Horsley [i] says we must look for *Nidus*, as he calls it, meaning *Nidum* of Antoninus, at the mouth of the river Avon in Somersetshire, yet Neath in Glamorganshire is by all other antiquaries allowed to be *Nidum*, the foundations of which, says Burton, still show themselves. The ancient and modern name have also the same signification in the respective languages. *Leucarum* of Antoninus is also generally admitted to be the present Loghor, or Lwgher, of easy Roman derivation, if such arguments are to be deemed conclusive [k]. Without admitting *Bulaeum Silurum* in Glamorganshire, or making two separate places of *Bovium* and *ad latus*, as some might do, we have, according to the testimony of the best antiquaries, no less than five distinct Roman stations in this

[b] Account of Brecknockshire, Archaeol. vol. I. p. 278.

[i] Britan. Roman. B. III. Ch. ii. pag. 465.

[k] Baxter, Gloss. in voc.

county, notwithstanding the small extent of the habitable part of it, and the consequent necessity of fixing those stations very near each other. Glamorganshire also proportionally abounds more than any other Welsh county with accessory or subordinate Roman camps, whether exploratory, estival, or otherwise. Of these the camp at *Caireu*, about two miles from Caerdiff, which an etymologist would stamp for Roman unseen, is the most remarkable, being large and very intire. It is particularly described by Mr. Harris, who takes notice likewise of two other smaller Roman camps in the same neighbourhood. He further mentions the camps near Ewenny, and in Tredegar Park, apparently Roman; and also describes some cross Roman roads, that join the *Julia strata* in this county. But these particulars, especially the last, merit a more diligent inquiry, which those alone, who are resident on the spot, can conveniently attend to. Notwithstanding the concurrent testimony of the most reputed antiquaries in settling the before mentioned Roman stations in Glamorganshire, very few certain and visible remains of Roman antiquities are, I believe, now to be found about those places, or indeed throughout the county. Scarce any occurred to me on the cursory view I took of them. The supposed Roman foundations at Neath, mentioned by Burton, seemed to me rather doubtful. The stone inscribed POMPEIUS CARANTOPIVS, which is taken notice of by Lhwyd in his additions to Camden, is still, however, remaining between Kemfig and Margam; and, if certainly Roman, as it appears to be, is, perhaps, the only antiquity of that kind extant in the county. Roman coins have indeed frequently been found in different parts of Glamorganshire, as well as in the other Welsh counties; particularly about Cowbridge and Boverton; and though these are rather doubtful, or, at best, only accessory testimonies of a station, yet they are surely strong proofs of some residence of the

Romans in the countries in which they are found in plenty. Mr. John Morgan, who represents the county of Monmouth, and manifests a most laudable zeal in the preservation of the antiquities of his country, not long since obligingly informed me of several Roman coins found in an old lead mine, supposed to have been worked by the Romans, on a hill called *Kefn-Pwll-du*, about a mile north of the beautiful family seat of the Morgans at Rupperra in Caerdiff hundred. Among these, Mr. Morgan particularly mentions the two following:

1. IMP. CAES. DOMIT. AVG. GERM. P. M. TR. P. P.

IMP. XXI. COS. XV. GENS. P. P.

2. IMP. NERO CAESAR AVG. TR. P.

P. M

IVPITER. CVSTOS

This Gentleman favored me at the same time with the annexed copy [1] of a drawing, found among his father's papers, of a Roman vessel accidentally discovered, about thirty years ago, by some people at plough, in a field called *the Warren*, at Therrow, his country seat, in Brecknockshire. The workmen said there were many of these vessels; that they stood in pigeon holes, one in each; but that they covered them all again, except one, from which the drawing was made, and which has since been unfortunately lost. As the curious observers of antiquity consider even these inferior objects as well worthy of their notice and illustration, of which the printed collections of the late celebrated Count Caylus afford a particular example; it is to be presumed, that an account of any such found in these remote parts will not be deemed superfluous. Mr. Hay of Brecknock, who has also lately visited this spot, further informs me, that, at Trebariod, little distant from it, he also saw an antique

[1] Plate III. Fig. 1.

square



square pipe of earth, like white brick, said to be found in the same neighbourhood, about sixteen inches long, and nine square, and about an inch thick. The inside seemed as if made with the hand, and the outside moulded, with the corners blunted. It appeared to be very well burnt, and probably belonged to some Roman conduit or water pipe. These anecdotes, however slight, sufficiently show, how reasonably we might expect, in those parts, other discoveries of the like nature, if the same curiosity was more generally excited among the Gentlemen who reside there. Having nothing further to offer at present relating to any actual remains of Roman antiquities in Glamorganshire, which may nevertheless very probably occur to more diligent inquiries, I shall beg leave to make a few general observations, tending, however, to confirm the opinion of the establishment of the Romans in that county preferably, perhaps, to any other throughout the principality.

FIRST, the necessary and most convenient communication, which the lower maritime part of Glamorganshire afforded between the more western provinces of the *Demetae*, particularly *Maridunum*, the capital, and the southern, and most important part of the island, of course obliged the Romans to have some settlements there; and the goodness of the soil and climate, added to the convenient situation, and beauty of the country, might well enough encourage them afterwards to increase those settlements. I shall not dwell upon other natural and oeconomical advantages with which this country also abounds in its different mines &c. as is well known. A sufficient proof of the mildness of the climate, is, that myrtle hedges flourish in the gardens at Caerdiff in open air, and in the greatest vigour. The neighbourhood of the sea, and a chain of high mountains that flank Glamorganshire to the north by a gradual elevation, give this country every desirable local advantage; *ea positionem quam*

*optimam judicavit CATO, et ob quam Italiam tantopere commendat PLINIUS*; perfectly corresponding also with that situation which Vitruvius recommends as the most eligible. I visited *from hence*, across a hilly country, the famous Caerphilly Castle, situated, at the distance of a few miles only, in a small plain surrounded by hills, somewhat resembling the situation of Caerleon, and covering a very considerable extent of ground. Nothing but the immensity of the building, I believe, could have induced any one, as it seems greatly to have inclined even Camden himself, to give this castle a Roman origin, of which, as I before observed, there are no real proofs; neither could I learn, that any Roman coins, or other marks of that people, were ever found there. However, Mr. John Morgan obligingly communicated to me some old and very curious characters [m], which, as he informed me, by letter dated Tredegar, 22d October 1769, he copied some time before from the front of some stones, which, as he imagined, formerly supported the beams in a room of this castle. But to return to my general remarks.

FROM what has been before said, it will, I presume, appear reasonable enough to suppose, that the Romans may have really shown some predilection for a province so convenient to them, and so richly favoured by nature as Glamorganshire; and that, therefore, the concurrent testimony of the most reputed Antiquaries in establishing so many Roman stations there is not without a plausible foundation. Add to this, that such testimonies have commonly some latent support from traditional authority, which, especially in matters of this kind, has its weight, however obliterated by time the sources may be from whence it flows. Do not also the numerous and magnificent remains of more modern times equally strengthen, by the same example,

[m] Plate III. Fig. 2.

such

such an opinion? Besides Caerphilly Castle, what other building, throughout the principality, can match the noble pile at Caerdiff, of which there are still very considerable remains, and which, according to the late curious and learned Mr. Lethieullier's account, covered eight acres of ground? Another circumstance that greatly recommends this fine ruin to the attention of the curious traveller, while it does credit to its noble owner, is, that it is very neatly kept, and in good repair, which is seldom the case of other such antiquated buildings. It is unnecessary to mention many other large castles and abbeys, in different parts of this county, and the ruins, and other marks of extensive habitations about Lantwit Major, St. Donat's, Kernfig, and many other places. Upon the same principle of successive predilection and settlement, may we not also reasonably account for the few certain vestiges of Roman buildings in Glamorganshire; since, as I took occasion to observe in a former paper, no countries are so little likely to preserve such remains as those where population, and consequently culture, have long prevailed? However, Glamorganshire certainly wants not its objects for the antiquary, if the more modern, though less classical, remains of antiquity can engage his attention. The most celebrated castles and abbeys in this county are already known to the curious, by the accounts given of them by different authors, and more especially from the valuable engravings of Mr. Buck, Mr. Grose, and others. I shall therefore confine myself to some less obvious, though equally curious remains, that fell in my way during my excursions through this county; and, by my attention to which, I hope, in some measure, to compensate for the ill success that attended my researches after Roman antiquities there. Lantwit Major before mentioned, afforded me the principal objects of this kind that excited my curiosity. The situation of this place, though rather low, is yet pleasant enough, being at a little distance only from the sea. Mr. Lethieullier,

ethieullier, with a perusal of whose curious manuscript tour of Wales, in 1736, I was favored, as I before mentioned, previous to my journey, by our late worthy and learned President the Lord Bishop of Carlisle, had sufficiently raised my expectations, by his account of that place, famous in ecclesiastical history, says he, for the residence of *Germanus* and *Lupus*, sent there for the extirpation of Heresy. Besides the remains of the celebrated schools, in which so many nobles are supposed to have been educated, and the ruins of many other buildings, there are several streets, as Mr. Lethieullier observes, in different directions, that retain their names, though the houses on each side are destroyed. A large old building still standing is called the Town Hall. Several curious monumental stones and inscriptions are seen in the church and church yard, and figures of a more antique date, says Mr. Lethieullier, than any I ever saw. Mr. Hay of Brecknock, to whose assistance I recommended myself, has since obligingly favored me with the annexed drawings and descriptions of the most curious of these stones, and which I have now the honor to present to the Society. According to this Gentleman's account, the following figures represent the flat stone [n] and inscribed carved pillar [o] communicated by Mr. Llwyd to bishop Gibson, and inserted in his edition of Camden's *Britannia*. The former [p] representing a grave stone, with a rude inscription on it, which I shall not attempt to decypher, lies on the south side of the church, and Mr. Hay says it is about four feet long; but seems to have been broken. It is reported to have been brought thither from the *great house*, as they call it, and looks as if it had been set with the lower part in the earth. Another square black stone, rudely worked, but without any character on it, also lies by the south door of the church. Mr. Hay here observes, that the chapel dedicated to the blessed Virgin is in ruins; however, in a niche

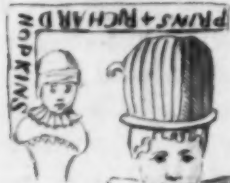
[n] Plate II. Fig. 1. 1.

[o] Fig. 3.

[p] Brit. p. 735.



Fig. 4.



Account of

curious manuscript tour of  
I before mentioned, pro-  
bably and learned President  
efficiently raised my expecta-  
tions in ecclesiastical his-  
Germanus and Lupus, sent

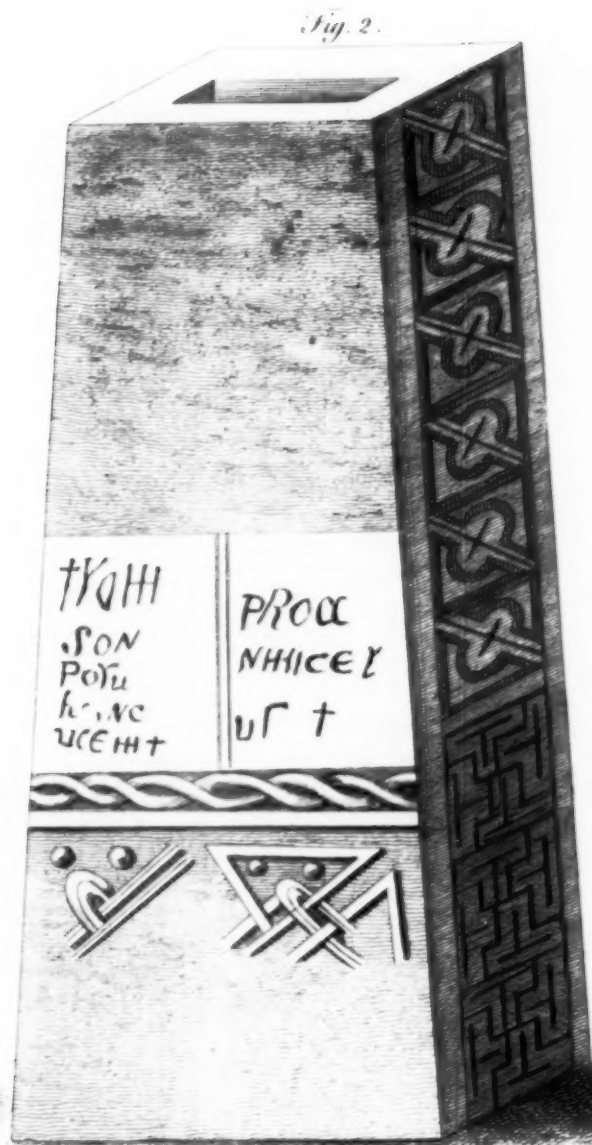
Besides the remains of the  
many nobles are supposed to  
of many other buildings,  
Dieulieu observes, in different  
though the houses on each  
still standing is called  
monumental stones and in-  
church yard, and figures  
Dieulieu, than any I ever  
whose assistance I recom-  
ly favored me with the an-  
the most curious of these  
honor to present to the So-  
an's account, the following  
and inscribed carved pillar [o]  
Hop Gibson, and inserted in  
The former [p] representing  
on it, which I shall not  
south side of the church, and  
long; but seems to have been  
brought thither from the  
as if it had been set with  
square black stone, rudely  
on it, also lies by the south  
re observes, that the chapel  
ruins; however, in a niche

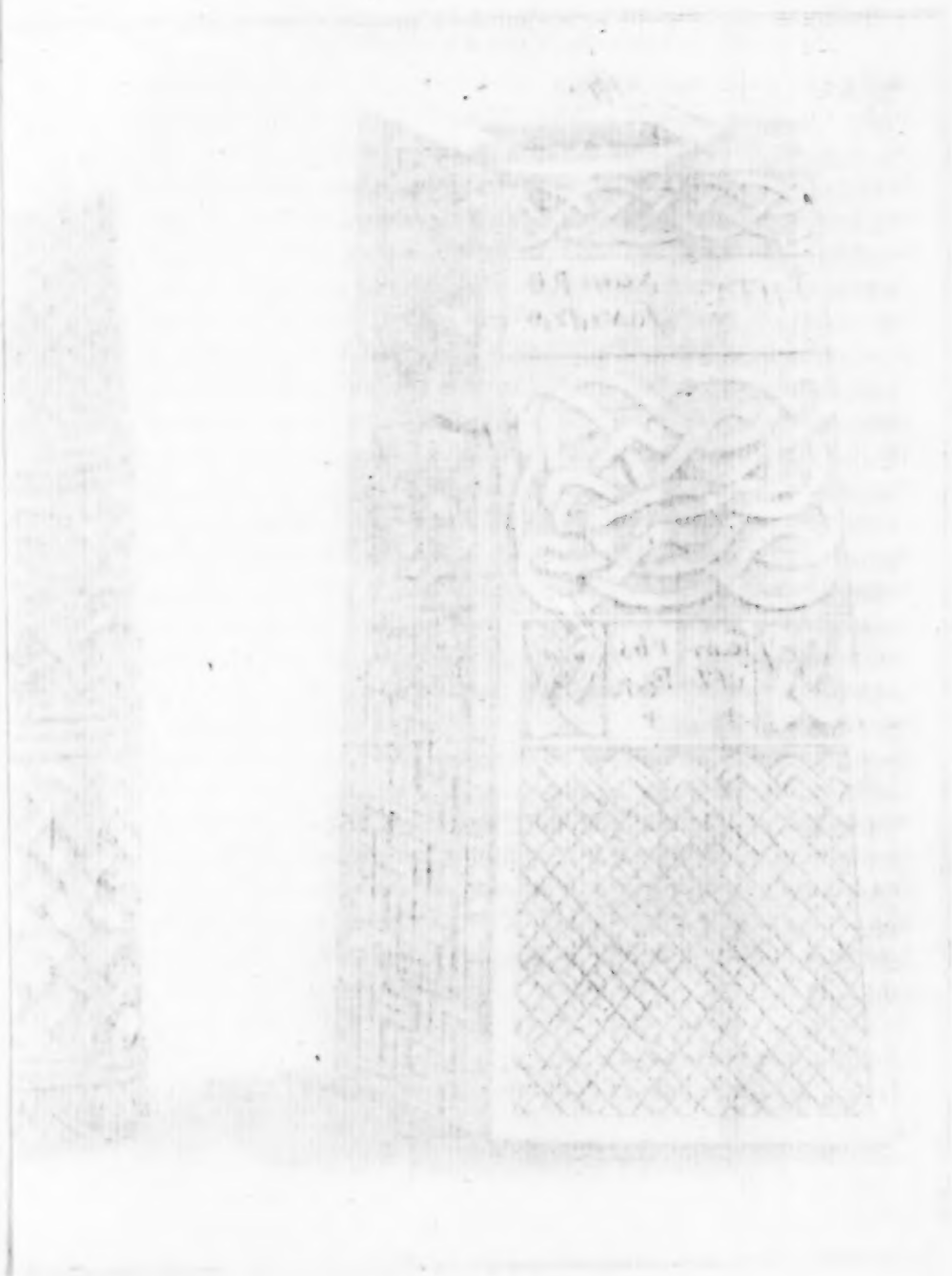
g. 3.

[o] Brit. p. 735.

in









in the east wall there appears the lower part of a statue; and, under the niche, is rudely carved in bas relief a woman leaning her head on her right hand, in a reclining posture. Near the altar is also another small rude figure, kneeling, and much in the same dress as the annexed figure [9], representing the statue of prince Richard Hopkins. It is finished with two small columns, one on each side of the figure, and just fits a niche, where seemingly a basin for the holy water also was, but which is now smeared over with lime. The round carved pillar of stone before mentioned stands in the church yard, near the northwest wall of the church, and was also taken notice of by Mr. Lethicullier. It is about six feet high, and curiously worked; having also a groove in it, cut longitudinally, and measuring about four inches broad, by two inches deep. There is also another stone in this church yard, about the same height, and curiously worked nearly in the same manner; but of an oblong square form, with a parallel longitudinal opening, or well, in the middle of it. The two annexed drawings [r] represent diagonal views of the different sides of this stone, on two of which are inscribed, in six separate compartments, the many rude characters observable also in the drawings, but which I shall not, however, attempt to explain. Mr. Lethicullier also mentions this stone. The next drawing [s] represents the beforementioned statue of prince Richard Hopkins, according to the inscribed label annexed to it, with the bust of a child, cut in high relief near it. This statue is of a whitish kind of freestone, like Bath stone; is a laboured piece; rather in a modern dress; and tolerably well finished; but seems imperfect at the bottom. It stands in a small place behind the altar in Eantwit Major church; but probably was brought thither from some other place. To the middle of the same church have also lately been

[9] Plate II. Fig. 4.

[r] Plate II. Fig. 1. 2.

[s] Plate II. Fig. 4.  
removed.

removed the two curious monumental stones represented by the annexed figures [1], and which lie side by side, though of different pieces and qualities of stone. The first figure is of a whitish kind of freestone; and seems by the dress, to represent, some ecclesiastic, perhaps a bishop, whose head reclines on a cushion placed diagonally, while his feet rest against two globes. He holds his gloves in his left hand, while his right lies on his breast. The robes are deeply carved, and the figure is nearly in high relief. The rude inscription [u] about it is cut laterally on the thickness of the stone; as in the other, near it, representing a curious mummy-like figure, cut in a kind of blue limestone, and broken near the middle [x]. This figure is also mentioned by Mr. Lethieullier. I shall here take notice, that in Landaff cathedral, the situation of which is very low, besides the many bishops monuments that are seen in it, there is likewise observable, lying in the church, a curious figure of the skeleton of a woman cut in stone, and well executed, though now rather defaced.

THE following drawings of other singular remains of antiquity, much of the same kind, and which are also observable in different parts of this county, may, perhaps, equally seem to merit some attention. The first [y] represents a rude figure, about five feet long, and carved in bas relief, on a stone projecting from under the south west buttment of the tower of Llanblyvian church, about a mile from Cowbridge, on the road to Lantwit Major; where formerly were seen two castles, of one of which there are still considerable remains. The next [z] drawing is of a curiously worked stone, also inscribed with a

[1] Plate III. Fig. 3. 4.

[u] It may be read,

*Willhm : de : Rhebillo : gyt : ici : Deu : de : fa : alms : gyt : meret.*

[x] The other inscription is imperfect, but may be thus read,

<i>nepetræ yslatustur</i>	<i>llectur : que : subjacet.</i>
-------------------------------	----------------------------------

[y] Plate III. Fig. 5.

[z] Plate III. Fig. 6.

few

Fig. 4.



Fig. 6.

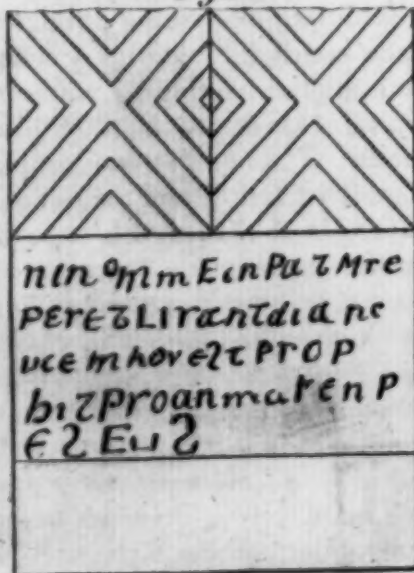
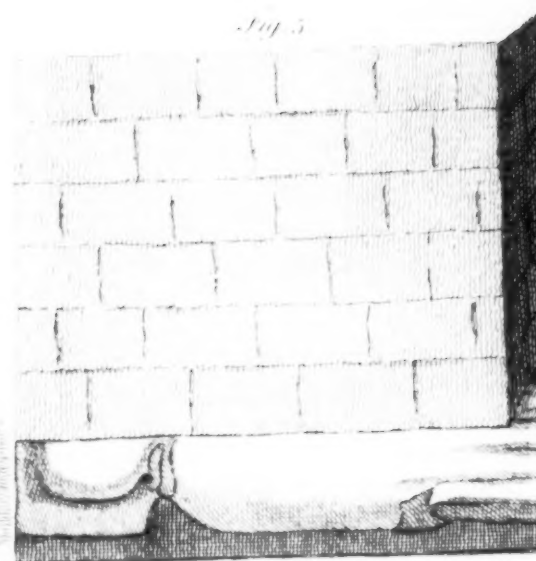
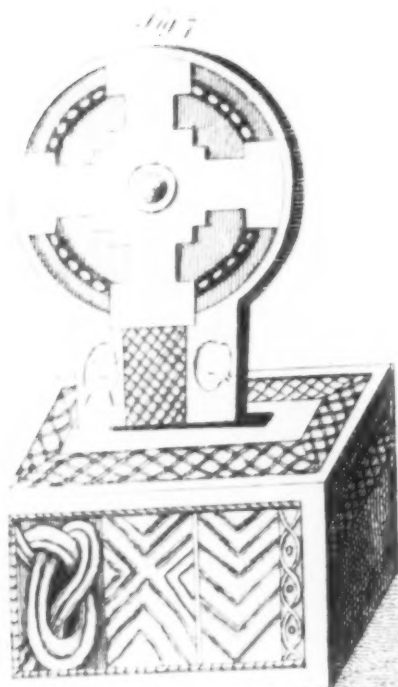


Fig. 1.



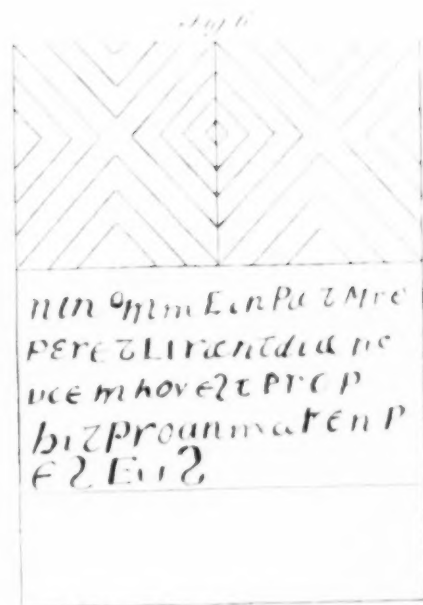
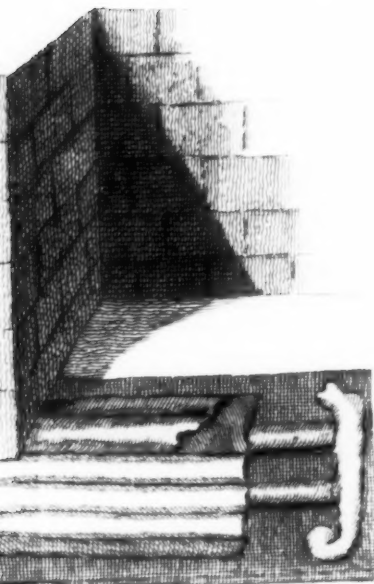
stone, represented by the  
 side by side, though not dis-  
 The first figure is of a  
 by the dress, to represent,  
 whose head rests on a  
 set rest against two globes,  
 while his right lies on his  
 and the figure is nearly in  
 about it is cut laterally on  
 ther, near it, representing a  
 kind of blue limestone, and  
 figure is also mentioned by  
 too, that in Landul cathed-  
 , besides the many bishops  
 is likewise observable,  
 of the skeleton of a woman  
 which now rather defaced.  
 singular remains of anti-  
 which are also observable  
 perhaps, equally seem to  
 represents a rude figure,  
 as such, on a stone pro-  
 tument of the tower of  
 in Cowbridge, on the road  
 between two castles, of one  
 in a man. The next [x]  
 one, also inscribed with a



The above figures are  
 given in their true



R 4





few rude characters, and which serves as a foot bridge before Court-y-David house, on the road side between Margam and Cowbridge. In the same place there is also another stone, nearly similar; but being reversed, Mr. Hay, to whom I am also obliged for these drawings, could not conveniently take the design of it. The third [a] and last drawing also represents a very curiously worked stone now standing in Margam village. The wheel, or circular part of it, marked with the cross, stood in the groove, on the top of the square base or pedestal, which is also most curiously wrought. This base is about four feet long by two and a half high, and about two feet thick; and the squared shaft that projects from the bottom of the wheel is about three feet and a half in diameter, and nineteen inches thick. I must not omit here to observe, that no lover of Gothic antiquities should pass Margam without visiting the elegant circular building, of curious workmanship, with a central fluted pillar supporting the roof, and which now serves as an out office belonging to Mr. Talbot's pleasant seat before mentioned. Mr. Lethieullier observes, that this building was formerly a Chapter house belonging to an old priory which was at this place.

HAVING nothing further to offer at present in regard to these antiquities of the lower times, I shall briefly mention some other particulars, but chiefly topographical, relating to Glamorganshire, which were taken partly from Mr. Lethieullier's curious manuscript before mentioned, and partly from my own observation.

RETURNING from Neath to Cardiff, Mr. Lethieullier left the great road at Newton Down, turning to the right, towards the sea coast, by an estate belonging to Lord Brooke, called (Tre-

[a] Plate III. Fig. 7.

garthaw) i. e. a garrison of a hundred bands; which place, though of note, is not mentioned in any of the maps of this county, that I have seen. Indeed the maps of the Welsh counties in general omit many other places of considerable note, and are very incorrect, particularly about the courses of the rivers, the situations of places, &c. Thus, for instance, in Bowen's map of Glamorganshire, from the source of the small stream Cunnon, in Penderin mountain, to its junction with the river Tawe, which is between ten and twelve miles, if I mistake not, and mostly through a cultivated and inhabited valley, there is only the name of the village Aberdawr. Geographers are, indeed, seldom exact in the more remote and mountainous parts of a country; and these, particularly throughout the principality, are very erroneously laid down in all the maps, and greatly need a general and more accurate survey. But I shall not dwell upon these particulars at present. Mr. Lethicullier, on mentioning the deep sands about Tregarthaw for three miles extent, adds, that so much has the sea incroached and driven them thereabouts, that great part of the adjacent country is laid waste, and the house almost buried by them. In another place he also observes, that Kemfig was once a town, though now its ruins are buried in the sands, and the few inhabitants of its lordship are retired to a hill about a mile from the old town. The pool of that name, and which is in Mr. Talbot of Margam's lordship, is about two miles round, and is remarkable for affording very large eels. I also recollect to have observed considerable sand hills, or dunes, like those in Holland, on the neighbouring coast between Margam and Breton Ferry. Other parts of the coast of Glamorganshire are likewise much exposed to the same natural inconvenience; as I particularly remarked in making the tour of Gower hundred, near Oxwich bay, where the shoals of sand are very great, and where the inhabitants



habitants pretend that an entire village had been swallowed up by them. If we consider the situation of the Glamorganshire coast, directly opposite to the violence of the south west winds, and forming a part of a narrow channel, this extraordinary collection of sands about it need not surprise us. I do not, however, find upon inquiry, that they have lately much increased; or that the sea has much incroached upon other parts of this coast; as might be expected, from its situation. On making the same inquiry, as to this latter article, in relation to the neighbouring coast of Monmouthshire, Mr. John Morgan, whom I have so often mentioned, obligingly informed me, that, on examining a survey taken of that coast and level near it in the reign of queen Elizabeth, it appeared, that the sea had made no considerable incroachments since that time. Mr. Lethieullier observes, that, between Merthyr Mawr, near which also were deep sands, and New Inn bridge, the river Ogmoré, or rather a branch of it, runs a quarter of a mile under the hills, passing also under several natural bridges; after which, issuing out again with great violence, it joins the main stream. The maps here again mistake, in giving this river the name of Ogmoré, before its junction with the Wenny; after which only it assumes that name; being called before the Bridgend river, as it comes from Bridgend, where it runs under ground a little to the north of that place, and appears again from under Ogmoré hill. On the 26th July, 1768, an extraordinary fresh of the river Ogmoré is reported to have carried away many houses, besides the loss of many lives. The Tive also frequently occasions damage. As these Glamorganshire rivers descend directly from a neighbouring chain of high and steep hills, their great and sudden rise in the subjacent plains is not to be wondered at. Skuscar isle is a rock near the mouth of the Ogmoré, which the sea washes over, particularly at high water, and in

storms; and Mr. Lethieullier adds, that two sons of the family of Vaughan, who purchased of the Butlers the manor of Dunraven, in which this island is included, lost their lives here; by which means the family became extinct, and the Wyndhams purchased the estate. St. Donat's Castle, which was given by the Stradlings to lord Mansel, is also particularly mentioned by Mr. Lethieullier; and I had much pleasure in seeing it, on account of its good preservation, and the fine command it has of the sea. The hanging gardens under it, leading down to the shore, are also much to be admired in point of situation, and must have been very beautiful, when they were kept in perfect order. The wall to the sea at the bottom of them is, however, in very good repair, as well as the park wall. In the castle, which Mr. Lethieullier particularly describes, I observed many busts of the Caesars, Cleopatra, &c. The church is at a little distance from the house, and rather low. In the burying-ille are two good monuments of the Stradling family; and in the churchyard is a very compleat stone cross, with the figure of our blessed Saviour on it, with two disciples, all in embossed open work; the shaft is octangular and of one piece, with a pedestal, and three deep steps beneath it. I omitted to mention, that Mr. Lethieullier, speaking of Cardiff, says, that it is about 1280 paces in circumference, had a wall round it, and four gates to the four cardinal points. The castle is on the north side of the town, and has high and thick walls, with battlements and a parapet; and Mr. Lethieullier is also very particular in his description of it. The square Gothic tower of Cardiff church is very light and in good taste; and commands a fine view of the sea and adjacent plain. Though the town contains two parishes, yet it has only one church; the other having been gradually undermined by the violent current of the river Tawe, which, when swoln by the mountain torrents, runs  
very

very rapidly, carrying a great body of water, and still makes considerable depredations in the town, as I myself observed. No Roman coins did I hear of either at Lantwit Major, or at St. Donat's, notwithstanding their reputed antiquities. The beautiful prospect of the vale of Glamorganshire, from Cowbridge common, but particularly from Sir Edmund Thomas's summer house, a little further on the road towards Cardiff, where it is very extensive, cannot fail to engage the attention of every traveller, that passes through this country. I also remember to have observed a pretty vale prospect from Newport church, without the town, and beyond which, about half a mile westward, is a small antient camp, perhaps Roman, most pleasantly and advantageously situated, nearly on the same elevation. There is also a very fine prospect on the road from Cardiff to Caerphilly, from above Mr. Lewis's, under Thorn Hill house; but they are so common throughout this beautiful country, that it is almost needless to specify them. Mr. Lethieullier particularly mentions *Mynydd Dormina*, or Drummer, as the Welsh call it, which is a hill about three miles from Neath, on the top of which he describes the following antiquities. In the middle of a circular row of stones, about thirty feet in diameter, is a British monument called *y-gist-waen*, or the stone chest; consisting of four stones set up edgewise, in a parallelogram, and covered at top by a fifth. As the arch of the inside measures only five feet in length, Mr. Lethieullier supposes this chest to have served only to receive the ashes of the dead. He further observes, that these stones do not appear to have been ever joined together by any cement, though bishop Gibson, in his additions to Camden, says, it was formerly of mason's work, though now quite gone. On such intelligence, curiosity excited me also to visit *Mynydd Dormina*. From Neath I took the Swansea road, turning out of it soon to the right, a  
little

little beyond the old gateway, still remaining, and formerly belonging to Neath abbey, and ascended the hill on the east side, by a steep and stony way, near which I observed some coal works, and so by a copse, under the brow of the hill. The top of *Mynydd Dormina* is a flattish pasture; but, to my great surprise, I searched there in vain for the stone chest before mentioned, and so lately seen by Mr. Lethieullier; nor had my guide, or others, of whom I inquired, ever heard of any thing like it. I, however, observed there a large upright stone, like many others often seen on the tops of the Welsh mountains, and which are nevertheless equally considered to be, and probably with reason, of British antiquity. This stone measures about fourteen feet high, four feet wide, and about two feet thick. The removal of such bulky masses to these elevated places, is one of the great objects of modern wonder; especially as it often, and, indeed, mostly happens, that none of the same kind is to be found in the neighbourhood. I have often observed that though such stones seldom seem to have been much worked, yet they commonly appear to have been chosen of a particular form, and nearly similar. That they are the remains of ancient and ignorant superstition is little to be doubted; especially as they are found in almost all countries, however uncivilized. Two such, serving as gods, or idols, are, for instance, described to be in Easter Island in the Pacific Ocean [b]. Indeed it is no wonder, if, in any country, during the infancy of civil society, such objects should be idolized, or serve as the monuments of their heroes, &c. as they naturally convey to the mind a great idea, especially when placed isolated on the tops of high mountains, or in extensive open plains, as they commonly are. It is also observable, that these stones are mostly

[b] Dalrymple's *Collection of Voyages*, &c. vol. II. p. 114.



of the compound kind; whether granite, moorstone, or the like, which was doubtless preferred, as such are of much harder nature, and therefore resist the weather much better than any other of an homogeneous kind, such as limestone, common sandstone &c. Returning to *Mynydd Dormina*, besides the large stone before mentioned, I also observed, not many yards distant from it, a large heap of small stones, which, in such situations particularly, are likewise considered either as religious or monumental, and may probably be those mentioned also by Mr. Lethieullier; but the stone chest in question has either been removed since his time, or I must have missed the sight of it, through the ignorance of my guide. But it is time to quit this part of my subject.

I SHALL now beg leave to observe to the Society, that among the preparatory memorandums which I minuted previous to my tour through this county, one was, to unite my endeavours to those intended by the learned Dr. Plot, as mentioned in his account of a designed journey through England and Wales, inserted in Leland's Itinerary [c], to find the Isle *Baruchus* on this coast, in which he says "there is a cave from whence are heard the noise of hammers, the blowing of bellows, as if it were the shop of the Cyclops." My object in this research was not so much the phenomenon itself, which is a merely accidental, and no very uncommon effect in stony and mountainous coasts, but a desire of ascertaining a spot recorded by so many and celebrated writers, not only of our own, but also of foreign countries. Clemens Alexandrinus and Varenus particularly mention it; the latter in the following words, which Dr. Plot seems nearly to have translated. *In insula BARUCUS (adjacet Walliae provinciae Angliae) ad mare rupes est, in qua hiatus,*

[c] Vol. II. p. 136. of the new edition.

*ad quem si aurem admoveris, malleorum ietus, folium motus, ferri stridulas, quasi in officina ferraria, exaudias* [d]. It is also mentioned by the great Camden and other authors; and is supposed to refer, on the strength of etymology principally, as I presume, to the small island of Barry on the coast of Glamorganshire, between Cardiff and Cowbridge. Lord Bacon [e], in his History of Winds, describes a similar phenomenon at *Aber-Barry, juxta Sabrinam*, as he writes; but as I find no such place as Aberbarry near the Severn in any of the maps, I suppose he must also have meant the island of Barry, which is indeed situated near the mouth of this river. This *BARUCHUS Insula* of Varenius, be it Barry, or not; seems also celebrated in ecclesiastical history for its saint of that name, who is particularly mentioned by an old author in the following title; *Imago beati BARUCHI, seu acta praecipue Barrochalia P. Forerii, Parrochi in Matinour*, Hag. Com. 1649, 8vo. According to Leland [f] it should seem, that Barry was actually meant here; since, speaking of the island, he says, "there is no house in it, but in the middle a fair little chapel of St. Barrok, where much pilgrimage was used." He also observes, that, at low water, there is a causey to go over to the island, which he makes only a mile round. Baxter also, in his Glossary, Art. *Birinas*, says, *hodie Barry Island, bir-mas-brevi insula, quod incolae crepant de nescio quo Sanctulo Barro*. Being prevented visiting this island myself, when in the neighbourhood, on account of bad weather, I was obliged to content myself with the information of others, and received the following from Sir Edmund Thomas, by favor of the Rev. Mr. Aubrey of Yneshedwin near Neath, to whom I immediately addressed myself, and to whom I am

[d] Varen. Geograph. General. Pars 1ma. sect. iii. cap. 10.

[e] Bacon. Hist. Ventorum in Oper. Edit. Lugd. Bat. 1648, 12°. pag. 40. art. 12.

[f] Itinerary, vol. IV. p. 42.

also obliged for other communications, as well as for his hospitality. According, therefore, to this Gentleman's account, the island of Barry is between three and four miles in circumference, formed chiefly of a limestone rock, which, as Leland rightly observes, joins the main land at low water. It is in the parish of Marthyr Devan; and has at present only one house on it, in which the tenant lives; but, on a rising ground, at the east side of the island, are the foundations of an old building, which still goes by the name of *the Old Chapel*. This is very probably the remains of the little chapel of St. Barrok, also mentioned by Leland. Sir Thomas observes further, that he had often heard, among the common people, of an odd air hole in Barry, towards the western point of the island; but had never been able to ascertain the fact. He is therefore of opinion with me, that it is a mistake; and that the air hole in question is one known to be at Wormshead Point, which, I must here take occasion to observe, might, on many accounts, easily be mistaken for *BARUCHUS Insula*, or Barry. For it is on the same coast of Glamorganshire, forming the western extremity of Gower hundred; is nearly of the same extent; and also consists of a limestone rock, that joins the main land at low water. Mr. Aubrey, however, informs me that sometimes ships of a hundred ton burthen have been known to sail over the isthmus; which may very easily happen during the spring tides, which rise to an extraordinary height on this coast, as I before observed in my account of Monmouthshire. Another source of mistake might have arisen from the affinity of the names of several places in the immediate neighbourhood of Wormshead Point. For Mr. Aubrey observes, that this point forms one side of the bay, or harbour of *Burry*, as he calls it; and which I suppose to be the same with that marked in Kitchin's map of this county

*Rosilly* Bay, from the neighbouring village on the coast. But it is also observable, that, in the same map, near *Rosilly*, also on the main land, several *Burrys* are likewise marked; as *Barry-head*, *Burry-green*; and, at a little distance near *Whitford Point*, *Burry-bar*. And as *Burry-head* is nearest to *Wormshead*, and is a more suitable appellation to mark a point or promontory, than any other spot, it is not improbable that it may formerly have been applied to this point in particular; especially as the present name seems rather whimsical and adventitious. Be this as it may, the affinity of the two names *Barry* and *Burry*, and the natural similitude, in point of character and situation, between *Barry* island and *Wormshead Point*, may probably have occasioned the above mistake in the different writers, who ascribe this *Æolian* cavern exclusively to the island of *Barry*, where, in reality, no such is to be found. Nor does it seem extraordinary that a popular credulity should also be founded on the same mistake. As to the air hole, or cavern itself in *Wormshead*, which I have visited, it terminates by a small opening at the top of the limestone rock, and probably communicating, by subterraneous channels, with another similar opening towards the beach beneath, occasions the rumbling noise, which is heard at the top, and is applicable enough to the above description given by *Varenus* and other authors. Such phenomena are not uncommon, as I before observed; and *lord Bacon*, in the preceding article of his *History of Winds*, in which he describes that of *Aberbarry*, also mentions another in *Denbighshire*, on the authority of *Gilbert*, who, I suppose, speaks of it in his voluminous treatise *de Magnete*. For the reasons beforementioned, *Lord Bacon's Aberbarry* might perhaps also refer to *Wormshead*. Exclusive of these circumstances, *Wormshead point*, from a particular survey of it, appeared to





N.1.



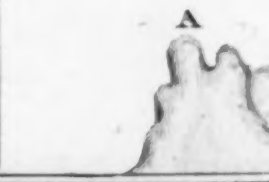
N.2.



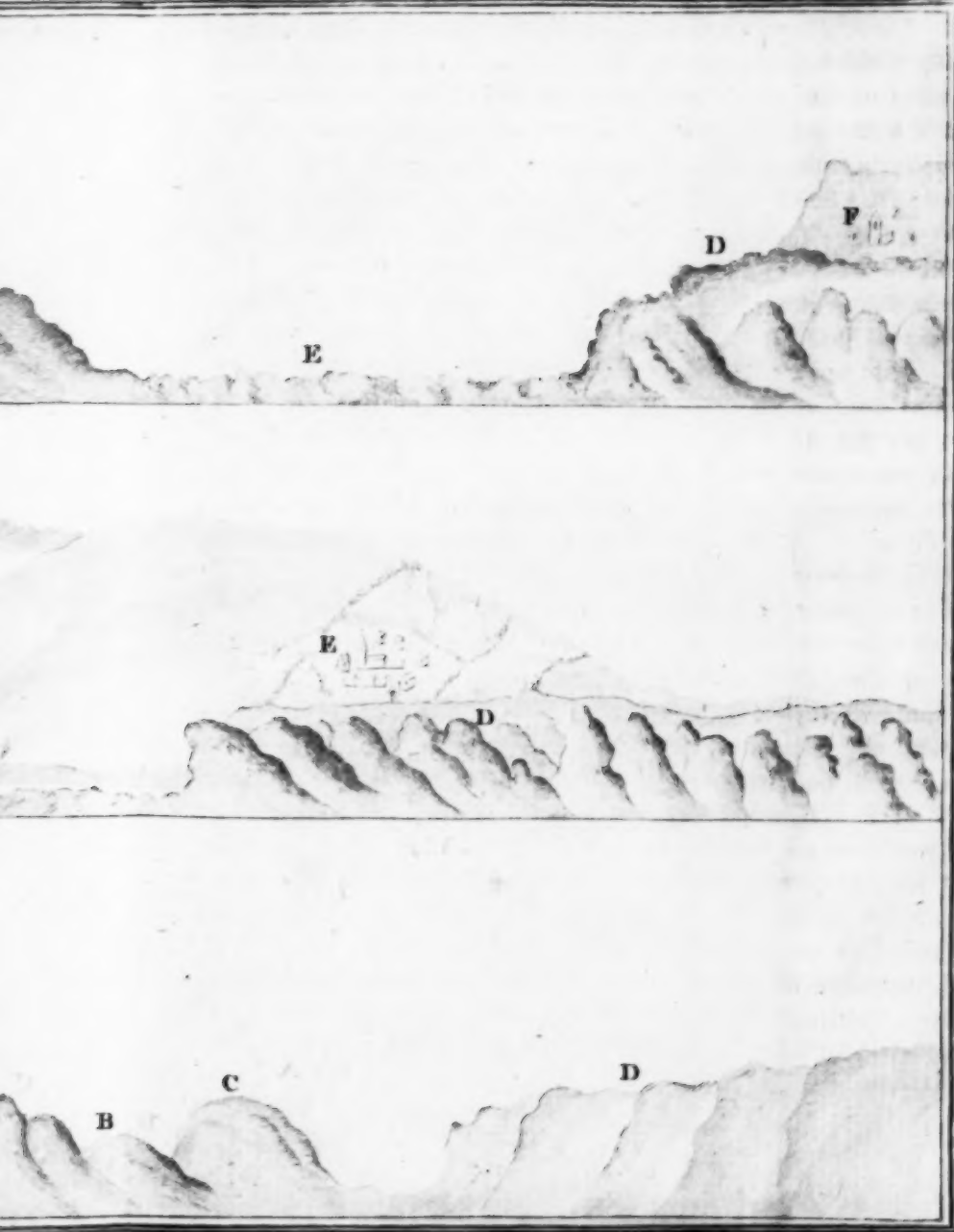
N.3.



N.4.



*Different Views of Wormshead Point near the village of R.*



*Rosilly in the Hundred of Gower in Glamorganshire.*

me for  
the fav  
cure m  
prove  
may fu

N<sup>o</sup> 1

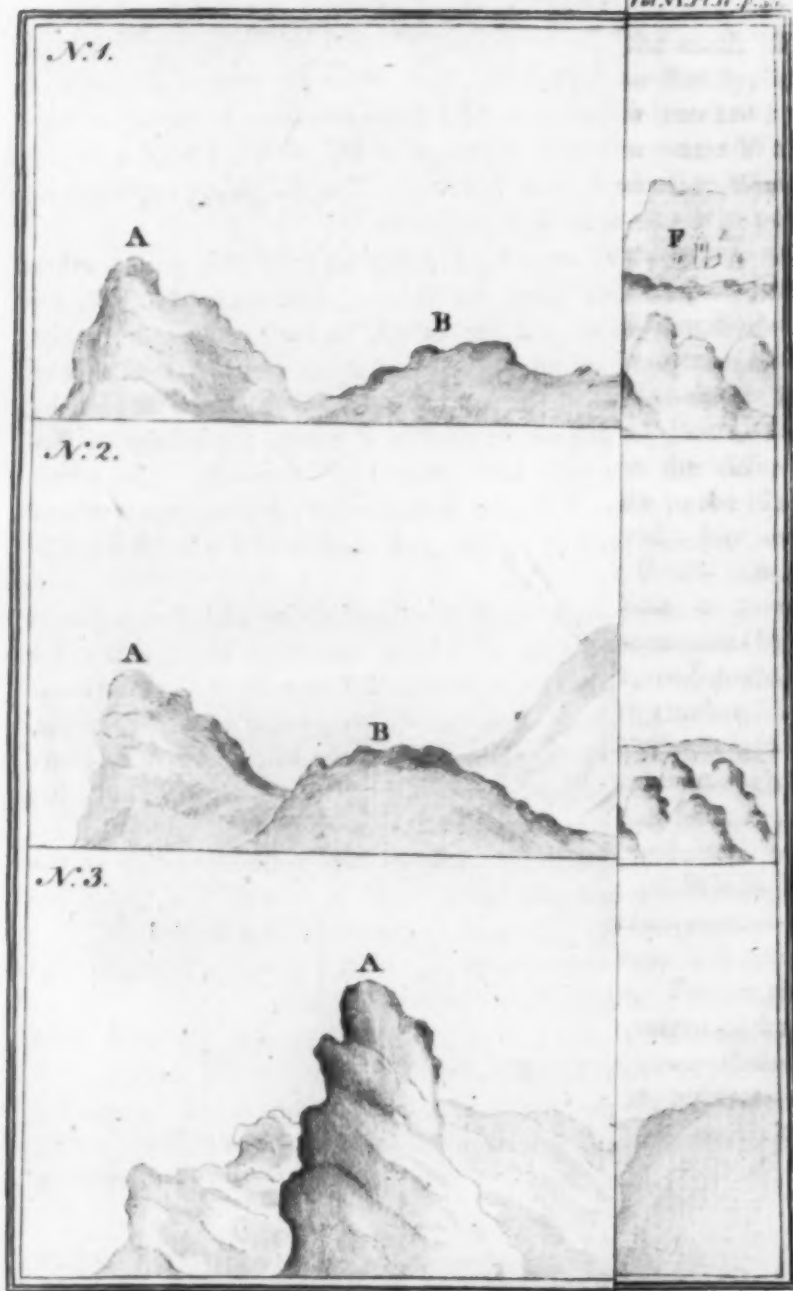
about  
islands  
the out  
rock, an  
the low  
filly, on  
rocky pr  
water, l  
limestone

A four  
land is re  
distant fr  
tion of  
the few c  
hood of  
fides a sm

N<sup>o</sup> 3.  
westward,  
low rocks

A south  
D, as befo

ACCORD  
to be resp  
montory,  
name, Wo



*Different Views of Work.*



me so curious a head land, that, after my return, I requested the favor of the Reverend Mr. Aubrey beforementioned to procure me the annexed drawings of it, which I hope will also prove acceptable to the Society. The following explanations may further serve to illustrate them.

N<sup>o</sup> 1. Plate IV. represents a side view of this point, taken about a mile south from the shore. The rocks A, B, C, are islands at half flood, and are called, in their order respectively, the outer head, middle head, and inner head. D is a steep rock, and part of the main land, to which the point joins by the low craggy isthmus E; while F marks the village of Rosilly, on the side of a hill rising high above it. The whole rocky promontory, from the main land D, is a peninsula at low water, bearing west by north, and consists of a whitish kind of limestone.

A south west view of Wormshead Point and the adjacent land is represented by N<sup>o</sup> 2. which was taken about four miles distant from the shore, and in which F represents the continuation of the hill from Rosilly, which is mostly a sheep walk, the few enclosures being confined to the immediate neighbourhood of the village; as is more distinctly seen in this view, besides a small tenement &c. at the foot of the hill.

N<sup>o</sup> 3. is a longitudinal view of Wormshead, taken to the westward, in which the outer head A only is seen, with the low rocks about it, and a part of the main land behind.

A south south east view of it, with a part of the main land D, as before marked, is represented in N<sup>o</sup> 4.

ACCORDING to the best of my remembrance, all these seem to be respectively faithful representations of this curious promontory, and sufficiently manifest the origin of its present name, Wormshead; the outline, formed by the different rocks,

alternately high and low, somewhat representing, though rudely, the figure produced by an earth worm, when in motion. Wormshead point also merits the attention of naturalists, for the extraneous and marine fossil bodies it contains, especially *entrochi*, which remaining often prominent above the surface of the limestone, on account of their resisting better the action of the air, make a singular appearance; whence they are believed to be, by the peasants there, the hardened excrements of sea gulls, and other such wild fowl, that frequent those rocks. There is a considerable tract of high mountainous land in Gower hundred, on the tops of which, as I was informed, are several *cromlechs*, and other British remains, though I had not the opportunity of visiting them. Some of them are, however, so large, that, being also situated on the summit of the naked mountain, I could easily discern them, even at a considerable distance. I observed the remains of an old castle near Port Inon, a little distant from Wormshead Point, to the southward; but the towered castle, near Oswich bay, deserves much better the attention of the curious traveller; as there are still very considerable remains of it, and in a good style.

I SHALL not presume to intrude upon the sufferance of this respectable Society by any particular account of the natural curiosities of Glamorganshire, though they also formed a considerable, and, indeed, the principal object of my inquiries there. I cannot, however, conclude this paper without observing, that many of them highly merit attention, especially the *phytolithi*, or fossil impressions of plants in the strata about the coal mines, and which are very curious. They are chiefly *filices*; not of our common indigenous species, but exotics; and I remarked several, that seemed to correspond exactly with some of the American *filices* figured by Plumier in his celebrated Herbal.

Bal. I have since seen much the same impressions in the strata of the coal mines of St. Chaumont, in the province of Lionnois in France; the origin of which has been so very ably discussed by that late learned naturalist Monsieur de Jussieu [g]. I also observed similar impressions in the coal strata near Rive de Giez, in the same neighbourhood. Other impressions, nearly of the same kind, are likewise observable in the iron stone of Glamorganshire; particularly between Breton Ferry and Neath; and which appeared to me more curious than any I had ever seen before, or, indeed, since. A recent author, Mr. Beuth [b], in his account of some extraneous fossil bodies of Lower Germany, has given the descriptions and figures of two curious *phytoliths*, greatly resembling some of those, which I remember to have particularly remarked in the said iron stone. Mr. Beuth may well style these bodies *rarissimi partus*. The hilly promontory a few miles to the west of Cardiff, as well as the blue limestone of the lower country, between Cardiff and Newport, also affords fossil marine bodies in plenty, especially the *Gryphites* oyster, which is not only found abundantly in the lower part of Monmouthshire, and about Purton Passage, but also extends, in considerable aggregates, along the neighbouring midland counties;—having myself traced them, either in the gravel or limestone, through Gloucestershire, Worcestershire, Warwickshire, and Leicestershire; occupying in like manner the lower parts of those counties, under the hills. In the high mountains on the confines of Glamorganshire and Brecknockshire, near Ynyskedwyn, the seat of my friend the reverend Mr. Aubrey, whom I cannot mention without a grateful sense of

[g] Mem. de l'Acad. des Sciences de Paris, 1718.

[b] *Juliae et Montium subterranea &c.* Ser. 1ma. N. 13, 14. Dusseldorp. 1776. 8vo.

his hospitality to me, I observed a rock of the same kind of black shelly marble that is found in such plenty near Killenny in Ireland; and which I afterwards saw in great abundance in Pembrokeshire, where it is also worked. The petrified marine shells contained in all these marbles are striated *conchae anomiae*, which are not only exotics, but known to be extremely scarce. But I shall no longer engross the attention of this learned Society, than to express my earnest desire, that my endeavours, in this present paper, may merit that indulgence from them, which I have so agreeably experienced upon former occasions.



III. *An Illustration of a Saxon Inscription remaining in the Church of Aldbrough, in Holderness, in the East-Riding of the County of York, in a Letter addressed to the Reverend Owen Manning, of Godelming, in Surry, B. D. and F. R. S. and F. S. A. by John-Charles Brooke, Esq. Somerset Herald, F. S. A.*

Read April 30, 1778.

DEAR SIR,

YOUR acknowledged skill in the languages of the ancient inhabitants of this island, has induced me to lay before you a Saxon monument of great antiquity, yet remaining in a church in Yorkshire; and it will make me happy if the interpretation of the inscription meets with your approbation.

THE unfetted state of the Anglo-Saxons in this country, occasioned by the government of a turbulent Heptarchy, and afterwards by the continual incursions of the Danes, gave little encouragement to the progress of the arts, and less to the ambitious to hand down their fame to posterity by memorials of this nature; hence the few erected in those ages now remaining in this kingdom must particularly engage the attention of us, their descendents.

THE

THE monument in question is an inscription engraved on a circular stone, fixed over a pillar on the south side of the nave of *Aldbrough* church in *Holderneffe*, in the East-Riding of the county of *York*, and running round the margin of the stone, which projects about two inches from the wall, and is twelve feet from the pavement. The copy [a], which I send you, was taken by my worthy correspondent, the reverend Mr. Dade, rector of *Barmeston* in *Yorkshire*, who made a tour last summer to *Aldbrough*, on purpose to furnish me with proper information on the subject, and to whom the lovers of antiquity have on various occasions been obliged, for his ready assistance in furthering their pursuits. It has been compared with a facsimile taken by our friend *John Topham* of *Gray's-Inn*, Esq. in the year 1772, which, by his favour, I also send you; and with another copy from the manuscripts of the late Dr. *Burton* of *York*, author of the *Monasticon Eboracense*.

The inscription may be read thus.

Sax.

"Ulf het [b] aræran [c] cyrice, for Hanum, and for Gunthard faula."

Lat.

"Ulfus jussit erigere ecclesiam, pro Hano, et pro Gunthardi animâ."

Eng.

"Ulf commanded this church to be erected for the souls of Hanum and Gunthard."

THE diameter of the stone is fifteen inches and a half, and the internal space is divided into eight angles by equi-distant

[a] See Plate V. Fig. 1. Fig. 2. shews the situation of the inscription. Fig. 3. represents the church of *Aldbrough*, and Fig. 4. one of its antient doors.

[b] þer yllan. Jussit dare. (Sax. Gosp. Matt. ch. xix. v. 17). þer þan an opæ. Jussit transire, id. Matt. c. viii. v. 18.

[c] ic hit anæpe. Ego illud excitabo, id. Joh. c. ii. v. 19. Anæpæt þu hit, Num excitabis tu illud? id. v. 20.

Fig. 3



Fig. 4.

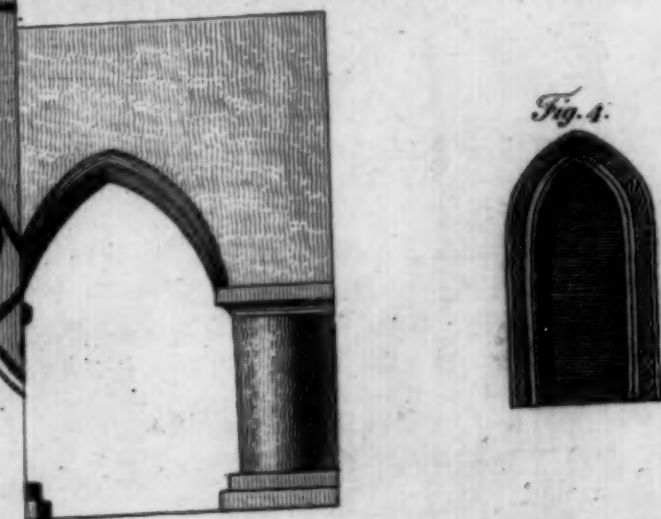
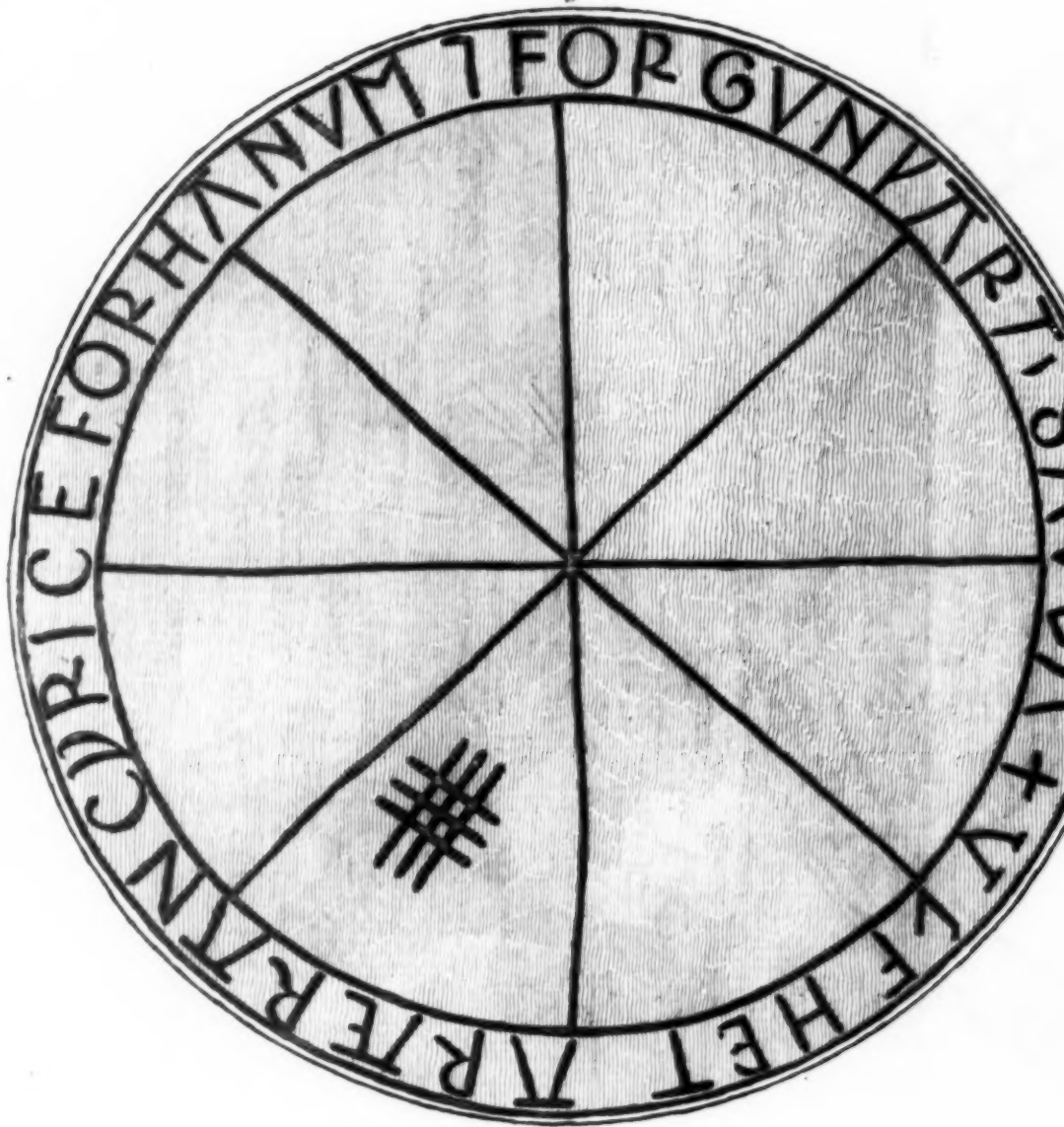


Fig. 1.



Aldborough



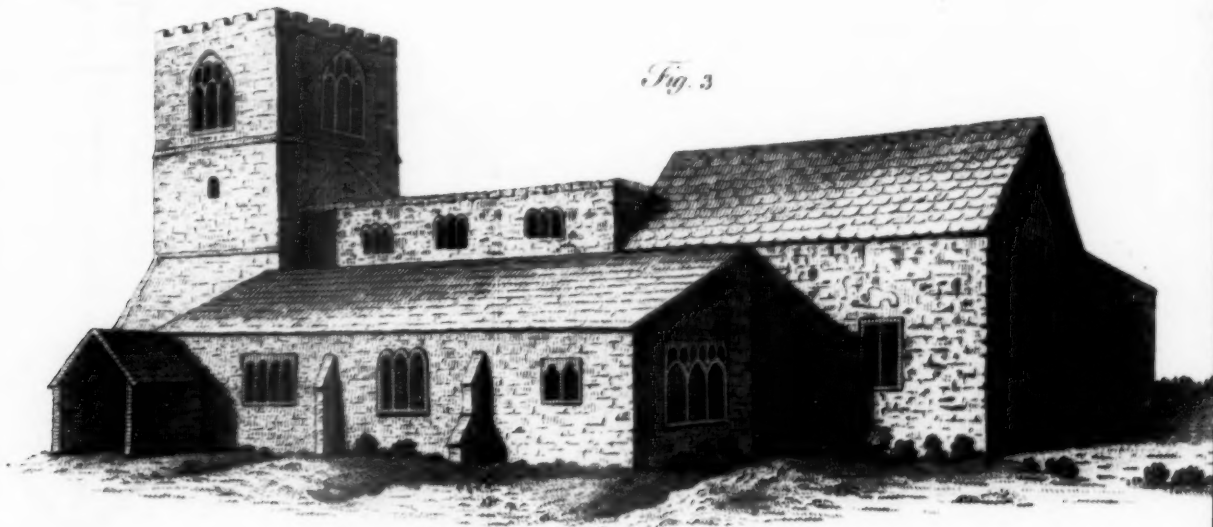


Fig. 3

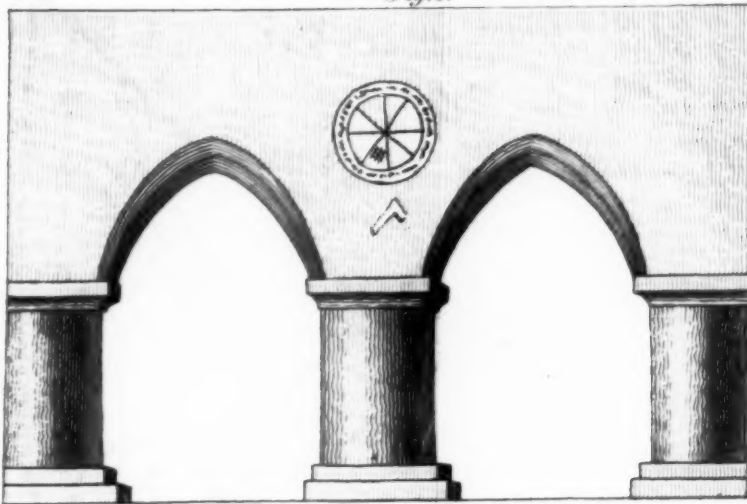


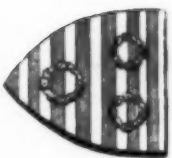
Fig. 2.



Fig. 4.



**Stemma Ulvi Comitis, in Provinciâ Deiræ ante Conquestum. D'ni de Aldburgh t. Edvardi Conf. Regis, et Ecclesiæ de Aldburgh ædificatoris, ut per inscriptionem constat.**



**Thoraldus, Pater Ulfi.**

Ulfus, filius Thoraldi, Comes in Provinciâ Deiræ, dedit multas terras Archiepiscopo Eboraci, D'ni de Aldenburgh, et Sætan temp. Edvardi Conf. Regis, ut apparet in litteris vocato Doomsday. *Ædificavit ecclesiam de Aldenburgh, ut per inscriptionem constat.*

Formo, filius Siulfi, vel Liulphi, cui Ranulphus de Melchines, D'ni de Cumberlandiæ ex dote Willm Cong. concessit Baroniam de Crefloe.

Ivo, filius Formoni, Dominus de Crefloe, tenuit terras Patris sui in Comitibus Ebor. Northumbr. Cumb. et Westmorland.

Willielmus, filius Ulfi, cui Hen. I. Rex Angliæ concessit manerium de Thorpe, Fangerholle, Melmen-elia et Cerevelah in comitatu Eboraci.

Sirus, filius Ulfi, dictus civis dives, in chronico Simonis Dancelm: habuit multas domos in civitate Eboraci, ut ex lib. vocato Doomsday constat.

Walterus filius Ivoonis, D'ni de Crefloe, vixit tempore Henrici primi, regis Angliæ.

Ranulphus, filius Willmi filii

Emmæ, filia Waldem, habuit maner-

Ranulphus, filius Walteri, D'ni de Amabili, uxor

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...





lines meeting in the centre; in one of which, near the base, is a rude figure composed of six lines crossing each other at right angles.

From the following circumstances, as well as this inscription, the church of Aldbrough appears to have been built by the Saxons; though it now has a more modern appearance, owing to the succession of repairs it has undergone, and the addition of windows very different from the original lights. The walls in general are made of round pebble stones, supposed to have been gathered from the sea-shore in the neighbourhood, which kind of stones by a strong cement make very durable buildings; but the lower part of the south wall of the chancel is built with hewn stone (such as was generally used in our most ancient cathedral churches), upon which there are some grotesque figures, and in the north wall is a narrow window about five feet high: the chancel door also, which is a south entrance, is low and narrow, and has over it an elliptic arch, ornamented (if I may use the expression) with zig-zag work, which was a stile peculiar to the Saxon architecture. These remains evince, that though the building is now much altered, it was originally erected by our Saxon ancestors.

As this inscription will help to clear up an event in history, which was of much consequence to these northern parts at the time it happened, I find much satisfaction in having collected several records which will serve to elucidate the identity of the parties mentioned therein.

ALDBROUGH is situated in that part of the Northumbrian kingdom which in the Saxon times was called Deira, and was bounded by the rivers Humber and Tees; and in this province, Camden informs us [c], there anciently ruled one *Ulf*, or *Ulfh*,

[c] Brit. 1600.

son of Thorald, who, by reason of the difference which was likely to arise between his sons about the sharing of his lands and lordships after his death, resolved to make them equal; and thereupon coming to York, with that horn wherewith he was used to drink, filled it with wine, and, kneeling devoutly before the altar, drank the wine to God, and St. Peter prince of the Apostles, and by that ceremony enfeoffed the church of York with all his lands and revenues [d].

THE horn, the instrument of this donation, has been the subject of a curious historical dissertation by Samuel Gale, Esq. formerly read at the Society of Antiquaries, and printed in the first volume of the *Archæologia* [e]. The learned author gives an extract from an ancient manuscript in the Cotton Library, wherein *Ulf* is stiled *Consul, et insignis comes*, and shows he possessed a great estate in Deira, which Mr. Gale supposes had been given him by king Canute, for assisting him in reducing these northern parts; and indeed his possessions must have been very great, for it appears from Doomsday-Book, that when the general survey was made, a<sup>d</sup>. 20 Willielmi I. Thomas archbishop of York, his canons and men, possessed the following manors in the province of Deira, which were held by Eldred the archbishop in the time of Edward the Confessor, and had belonged to *Ulf*, viz.

“ *Langbeton, Cottun, Saletun, Bragebi, Bergh, alia Bergh,*  
 “ *Nagbelton, Maltun, Wilhetun, Pochelaf, Ambresforde, Flaxtun,*  
 “ *Mortun, Bafchebi, Carletun et Stanegrif* [f].”

[d] “ *Dominabatur Ulfus ille in occidentali parte Deiræ, et propter altercationem filiorum suorum, senioris et junioris, super dominiis post mortem, mox omnes fecit æque pares. Nam indilato Eboracum diverit, et cornu, quo bibere consuevit, vino replevit, et coram altari, Deo, et beato Petro apostolorum principi, omnes terras et redditus flexis genibus propinavit.*”

[e] Page 168.

[f] Doomsday-Book, f. 303.

THESE

THESE had all been the inheritance of *Ulf*; and, speaking of Stanegrif, the record expressly says, "*In Stanegrif (tempore regis Edwardi) tenuit Ulf sex bovatas, idem dedit Sancto Petro.*" This evidently proves that *Ulf* lived in the time of the Confessor, and probably died in his reign, as Edward confirmed all the donations which he had made to the church [g].

BESIDES the manors which *Ulf* gave to the See of York, he possessed other estates which that church seems to have had no concern with [b]; and amongst these *Aldbrough* occurs, where he placed the inscription, and of which he was lord in the time of Edward the Confessor, as appears by the following extract from the same record:

Eurvicscire  
In Terrâ Dragonis de Bevrere.  
Holdrenesse.

"In manerio *Aldenburg* habuit *Ulf* undecim carucatas terrae  
"ad geldam, ubi possunt esse decem carucatae: in *Niwetone* et  
"Scirelai et *Totele* sunt duae carucatae terrae, et sex bovatae  
"ad geldam, ubi possunt esse tres carucatae. Nunc habet  
"Drogo ibi unam carucatam, et quidam miles ejus, unam  
"carucatam, et quatuordecem villanos cum duabus carucatis.  
"Ibi centum acrae prati. Silva pastura, quatuor quarentenae  
"long. et tres in latitudine [i]."

THE

[g] *Archaeologia*, vol. I. p. 173.

[b] Viz. *Leffete*, *Biworde*, *Fotheringham*, *Barton*, *Setton*, *Rifun*, *Thorp*, *Lapun*, *Bovington*, and *Bergetorp*.

[i] *Doomsday-Book*, f. 324. The record goes on; "*Ad hoc manerium (Aldenburg) pertinet foca hæc. Wagens, septem caruc'. Melfe duae car'. Benincol duae car' et quinque bovati. Rugbeton duae car'. Scherle quatuor car' Duustorp tres car'. Meretone duae car'. Fosham duae car'. Biuinch sex car'. Niwetone una car' et dimid'. Ringeburg una car'. Woffum duae car' et duae bovati. Totele quinque car'*

THE manuscript quoted by Camden says, *Ulf gave all his estate* to God and St. Peter, i. e. I suppose, all he had a power to give, for there might be settlements which prevented his alienating the whole from his family, especially to a religious foundation. Authors have given instances of traces of the mortmain act even amongst the Saxons. Selden relates the following from the old book of Abingdon. "A servant of king Ethelred, called Ulfrie Spot, built the abbey of Burton in Staffordshire, and gave to it all his paternal estate valued at 700 *l.* and, that his donation might be good in law, he gave king Ethelfred 300 marks of gold for his confirmation of it, and to every bishop 5 marks, and over and above to Alfric archbishop of Canterbury the village of Dumbleton [k]." Or else a part of his estate might be under an entail; for we find in our earliest Saxon laws strong marks of these limited conditional fees, which could not be alienated from the lineage of the first purchaser [l].

"et sex bovati. Otrige dimid car'. Simul ad geldam quadraginta et una carucata terrae, ubi possunt esse quadraginta carucatae."

"Nunc habet Drogo ibi duas carucatas et sex sochmannos et quatuordecim villanos, et tres bordarios habentes septem carucatas. Tres milites Drogonis habent ibi duas carucatas, et duas villanos et tres bordarios. Ad eas adjacent centum septuaginta viginti et quatuor acrae prati. Totum manerium cum appendentibus novem leugae longae et sex leugae et dimidium latae. Tempore regis Edvardi valebat quadraginta libras, modo sex libras."

It is remarkable that the church of *Aldburgh* is not mentioned in *Doomsday-Book*, which is also the case with that at *Kirkdale* some time since laid before the Society, though both must have existed prior to the survey, as appears by the inscriptions.

[k] Selden's *Janus Anglor.* l. ii. c. x. sect. 45. p. 69. et *Annales Mon. Burton.*

[l] "Si quis terram haereditariam habeat, eam non vendat a cognatis haereditibus suis, si illi viro prohibitum sit, qui eam ab initio acquisivit, ut ita facere nequeat." *Leges Aethredi*, 37. Wilkins, p. 43.



On some of these accounts it doubtless was that the whole of his fortune was not given to the See of York, and that some of it remained to his sons, who probably were deprived of the greatest part of their possessions at the Conquest; for, when the general survey was made, *Aldburgh* belonged to Drogo de Bevrere, to whom the Conqueror had given the whole territory of *Holderness* [m].

THIS Drogo, or Drew de Bevrere, sometimes stiled from his estate Drogo de Heldrenesse [n], was a Fleming, who accompanying William into England, and being a skilful and courageous man in arms, was rewarded by him with this estate, on which he built the castle of Skypsey [o], said to have been the strongest fort in all these parts [p]; but having afterwards killed a kinsman of the king's, he was constrained to quit the kingdom, and escaping to Flanders, king William bestowed the territory of *Holderness* upon Odo, earl of Champagne, who had married Adeliza his sister [q].

Odo, earl of Champagne, stiled also earl of Albemarle and *Holderness*, had issue Stephen his heir, who succeeded to all his possessions, and was founder of the great monastery of *Albemarle* in Normandy, to which he gave many churches and estates in England, which had belonged to *Ulf* [r], and among others the tythes of his castle at *Aldburgh* [s], which shews that

[m] Doomsday-Book ubi sup.

[n] Mon. Angl. vol. I. p. 796.

[p] Dugd. Baron. v. I. p. 60.

[r] Wagene, or Wawn, Frothingham, &c.

[s] "Decimum de castello de Aldebürgh." Mon. Angl. vol. I. p. 588.

Not the least vestige of this castle now remains. Tradition says, it stood northward of the church; but an inclosure which took place at *Aldburgh* some years ago has quite levelled the foundations, and the well, which was within the castle and supplied it with water, is now in the high road. Ex informat. Rev. Will. Dadr.

it was a place of consequence in very early ages; and indeed there is reason to suppose that it had existence long before the time of the Saxons. The name, *Ealdburg*, *Burgus antiquus*, denotes its antiquity; thus the Ifurium of Antonine, which has afforded such a treasure of Roman reliques [1], is now called *Aldborough*; and Camden says [u], that at the other place of that name in this county, *Aldburgh* in Richmondshire, situated on the Iter ad Vallum, near Cataractonium, many vestiges of large buildings might be discovered; which seems to shew that this name had been given by the Saxons to places of ancient note. In the plate of the Roman roads in Yorkshire, published by the Society of Antiquaries, the street, which is traced along the sea-coast, as leading from Praetorium to the Gabranticorum Sinus Portuosus vel Salutaris of Ptolomey, runs through *Aldbrough* [x]. From all which we may conclude, that it was known to the Romans, though history takes no notice of it in that light.

STATIONS when settled in a country are seldom changed. They are generally fixed upon at first on account of some excellence; and the superior degree of cultivation, and other conveniences of life which surround a place when once inhabited, generally tempt the successors of a conquered people to retain them. Thus many of the known Roman stations in this island are now capital towns; the Saxons succeeded the Romans, and were succeeded by the Normans; and it is probable that *Ulf* made *Aldbrough* his chief residence in the province of Deira, from its having been anciently a place of note and strength. It is evident that Stephen, earl of Albemarle, who succeeded *Drew*

[1] Drake's Eboracum, p. 12.

[u] Britan. by Gibson, v. II. p. 12.

[x] Vol. I. N<sup>o</sup> 47. Drake's Ebor. p. 36.

de Bevrere, had a castle here. Drew built the castle of Skipsey, which is within a few miles of *Aldburch*, and is expressly said to have been the strongest fortress in all these parts [y]. It is not probable that either of these successors to the estate of *Ulf* would erect a place of inferior strength to the other, which was so near it; whence we may conclude, that Drew, upon entering on the estate of *Ulf*, not finding his castle of *Aldburch* of sufficient strength, built that of Skipsey, that he might be the better enabled to repel the incursions of the northern nations, who frequently landed from the continent on the Yorkshire coast; and that *Aldburch* had before been the capital mansion of *Ulf* in these parts, which he chose particularly to distinguish, by piously erecting a church there, for the repose of the souls of two of his friends, *Hani* and *Gunthard*.

WHAT relation these two persons, mentioned in the inscription, bore to *Ulf*, does not appear. We find names partly similar to the former in use with the Saxons [z]. Gunthard was probably some particular friend, for it appears from the general survey that he then held a manor in the neighbouring lordship of *Rimeswell* of Drogo de Bevrere [a].

THE very liberal alienation which *Ulf* had made of his property to the See of York, and the seizure of most part of the rest at the Conquest, probably reduced his sons to a very different situation of life from that enjoyed by their father, who, we are told, was *Consul et insignis comes* [b]. One of them, named

[y] Dugd. Baron. v. l. p. 601.

[z] Catalogus of the coins of Canute, p. 181.

[a] "In Rimeswelle habuit Ode quinque carucatas terrae, et duas bovatas ad geldam, ubi possunt esse quinque carucae. Nunc Balduinus et Gunthardus habent de Drogone. Ipsi (habent) duas carucatas, et viginti acras prati, una leuga long. et una lat. Tempore regis Edvardi valebat sexaginta solidos, modò quadraginta solidos." f. 324.

[b] Cod. MSS. Bibl. Cotton. Cleopatra, N° II. cap. iv. p. 25.

*Styr*, or *Stirre*, is called, by Simeon of Durham, *Civis dives* [c], which probably might be from the possessions he enjoyed in the city of York, the capital of these northern parts, and where he had many houses, as appears in Domesday-Book [d]; and these possessions which *Styr* held in the city of York, were probably what afterwards the See of York enjoyed there, and which in ancient inquisitions is called *Terra Ulf*, from having been the estate of *Ulf* his father [e].

THE other son of *Ulf*, who was called *William*, in after-times found such favour with the crown, that Henry I. made him a very liberal grant of lands in the province of Deira, and in the neighbourhood of his father's estate in the East-Riding; the deed by which this was done, taken from a copy of the original, remaining in the time of queen Elizabeth, with the royal seal appendant, amongst the evidences of the lords Dacre of the north, is here given at large.

[c] Cron. Sim. Dunelm. col. 80. n. 21.

[d] In Eboraco Civitate.

"Comes de Moritonio habet ibi quatuordecim mansiones, et duos bancos in macello, et ecclesiam Sancte Crucis. Has recepit Osbernus filius Bozonis, et quicquid ad eas pertinet. Hae mansiones fuerunt horum hominum, Sonulfi 1, presbiteri 1, Morulfi 1, Stirri 1, &c." Et postea, "Waldinus interceptit duas mansiones Ketel presbiteri, pro una mansione *Stirre*, &c." f. 298.

[e] Archaeologia, vol. I. p. 179. Drake's Ebor. It is worthy of observation that the magnates or tenants in capite in the reign of the Conqueror had most of them houses in the capital city or town of the county where their possessions lay, which we may conclude were town residences for them during the winter, or to be near the Curia Comitum; and this gives us a much higher idea of the polished manner of living of our Saxon ancestors than has been imagined. Of the twenty-eight tenants in capite in the county of York, mentioned in Domesday-Book, twelve of them had houses in the city of York; of which some of those that belonged to William de Percy, the residence of whose family in Walmgate was called *Percy's Inn*, still belong to his descendant the present earl of Egremont.

"HENRICUS



" HENRICUS rex Angliae, archiepiscopo Eboraci, &c. salu-  
 " tem. Sciatis me concessisse *Willielmo* filio *Ulf*, et haeredibus  
 " suis post mortem ejus, in feodo et haereditate, terram suam  
 " de *Fungefesse*, et de *Thorpe*, et de *Meltemebia*, et de *Gevel-*  
 " *dala*. Tenendam de me pro quatuor libris inde reddendis mihi  
 " per annum. Testibus, Roberto de Ferrariis, et Waltero  
 " Espec, et Rogero de Valoniis, et Fornone filio Sigulfi. Apud  
 " Nottingham [f]."

THIS William seated himself at Grimethorpe near Pocklington in the wapontake of Harthill, and had issue Ralph his heir, whose posterity continued at the same place, and were esteemed of the rank of barons, bearing some time the name de Grimethorpe from their residence; at others, that of Fitz-William, from their ancestor, *William*, son of *Ulf*; till in the thirteenth century they assumed the name of Greystock for the estate of that family in Cumberland, which descended to them from John lord Greystock [g].

It

[f] Vinc. N° 59 in Colleg. Armor.

[g] In the reign of Henry III, Ralph Fitz-William de Grimethorpe married Joan, daughter of Thomas, lord Greystock, and had issue William, father of Ralph Fitz-William de Grimethorpe, summoned to parliament from 23d of Edward I. to 9 Edward II. inclusive. (Dugd. Sum. ad Parh. p. 11, et postea usq. p. 102.) On this Ralph, John lord Greystock, his cousin, or nepos collateralis of his grand mother, having no issue or relations of the male-line, settled the manor and barony of Greystock in Cumberland, and all his estate, on condition he should found a college in the church at Greystock, (Dugd. Baron. v. I. p. 740. Vinc. N° 59. p. 256, in Coll. Armor.) for which donation Edward I. granted his licence dated at Odomor in France, 17 August, 25 of his reign, 1297, the said Ralph being then in his service beyond sea. (Vide Exemplar Chartae Vinc. N° 59. p. 257, ut supra.) And John, lord Greystock, dying in the 34th year of the same reign, (Esch. 34 Ed. I. N° 40. Claus. 34 Ed. I. m. 2.) he accordingly entered into possession, and assumed the name of Greystock, but retained the Grimethorpe arms, as was formerly usual; for in early times, before the use of autographs, and when seals were the only evidence, we find our ancestors were much more tenacious of such ensigns than of their nominal appellation; thus Josceline de

It may be observed, that in those manors possessed by *Ulf* in the East-Riding before the Conquest, *Settun* is mentioned: "*In Settun, Ulf et Siuargert habuerunt, tempore regis Edvardi, sex carucatas terrae et dimidiam ad geldam, et sex carucae possunt ibi esse, &c.*" [b] and it appears in the inquisition taken after the death of William, lord Greystock, his lineal heir male, who died on the feast-day of St. Margaret, 20th July, 32 Edward III. 1352, that he died seized (inter alia) of the barony of Greystock, and the manors of Grimthorpe and *Seton* in the East-Riding of Yorkshire [i]; by which it seems, that this estate was so settled, that *Ulf* could neither alienate it from his posterity by giving it to the See of York, nor the Conqueror legally seize it, but that it continued in the male-line. Several authors have endeavoured to prove, that the settlement of the crown of England on William I. was by the general consent of the people, and not by force, and that he came not to deprive the English of their rights, but to dispossess those who unjustly were enjoying any land to the disherison of the king and his crown; and we find this opinion prevailed in very early ages, when

Louvain, though a descendant in the male line from the Carolingian or second race of the kings of France, upon his marriage with the heiress of Percy, chose rather to assume her name than change his own arms. But in after-times, when the mode of quartering arms took place, the lords Greystock of the Grimthorpe family quartered ancient Greystock with their paternal coat; and one of them on his seal significantly placed the cushion, the cognizance of the Greystocks, within the chaplet of Grimthorpe, alluding to the merging of the estate of the former family in the latter; as appears by sundry ancient deeds amongst the evidences of the earl of Surrey, who is the present possessor of the manor and barony of Greystock, by descent from Ralph Fitz-William of Grimthorpe.

[b] Doomday-Book.

[i] Elch. 32 Edw. III. No. 43.

much

much better evidence remained of the fact than we can now possibly have [4].

THE story of Edwin the Saxon related by Spelman is well known; who being, before the Conquest, possessed of the castle of Sharnborne in Norfolk, William gave it to Warren, a Norman; on which Edwin comes into open court, and before the king demands his right, tells him it did, *de jure*, belong to him, upon this reason of law, for that he had never taken up arms against the king, either before his arrival or since; whereupon the king, *vinculo juramenti astrictus*, gave judgment of right against the Norman, and Edwin recovered the lordship [1].

MANY other instances of a like tendency are related by Mr. Petyt in his *Ancient Rights of the Commons of England asserted*, and by Atwood in his *Jus Anglorum ab Antiquo*; and indeed it is not possible to suppose that so numerous a people as the Anglo-Saxons were would have suffered themselves to be held in subjection by the small force the Norman brought hither, if the consequence was to be a total deprivation of their property. The end of all government is the benefit of the people, and wise and wealthy men in all ages have been for supporting that power which could best protect their property, and of course have been averse to revolutions, which in civilized states have generally been brought about by the profligate and needy; the Saxons had long suffered by a divided Heptarchy, and under the Danes and wisely considered, that it was better policy to part with a small portion of their property to William, in order to add strength to his arms for the protection of the rest, than by

[4] "Le Conqueror ne vient pas pour ouster eux, qui avoient droiturell possession, mes de ouster eux que de leur tort avoient occupee ascun terre en desheritance del Roy et son coronne." *Argumentum Anti-Normanicum*, p. 63. Joh'es Shardeflowe, unus Justic. de Banco, 16 Ed. III.

[1] Spelman's Gloss. verbo DRENCHES, p. 184.

an imprudent opposition endanger the whole. Indeed, it may be said, that when the general survey was made, the Normans were the only tenants in capite, which, except in a few instances, is true; but this tenure seems to have been more honorary than beneficial, and the real property of the land to have been vested in the Valvasors, who held under them, and were chiefly Saxons; the Magnates, or superior lords, seem only to have received a small acknowledgement, and to have superintended those districts, which they are in Doomsday-Book said to have held of the king [m]. And in the course of my researches in these subjects, various instances have occurred, not only where the Saxons possessed lands before the Conquest, and held the same of a Norman as tenant in capite after; but where they have been deprived of an estate in one place, and had a much larger given in another; where those who had none before had estates granted, and where their posterity inherit the same by descent at this day. From all which we may conclude, that the entrance of William I. into this kingdom was more by compact with the people, than by conquest with the sword; and that, as he did not come to abolish the Anglo-Saxon laws, it is probable that *William*, son of *Ulf*, enjoyed the manor of *Seton* by hereditary right, which descended to his posterity, the Grimethorps.

THE family of the lords Greystock continued to flourish till the reign of Henry VII, when Ralph, the last baron, died, 1st July, 1487, leaving Elizabeth, his grand-daughter, daughter

[m] Aloric, the son of Richard Aschonald, a Saxon, possessed the castle of Kirkby, or Pontefract, before the Conquest, as appears in Leland's Itinerary, which being a place of strength, fit to protect the northern parts, William gave it to Ilbert de Lacy, one of his followers; yet this Aloric, and Swein his son, held a vast estate under Ilbert at the time of the general survey, of which some of their descendants possess parts, as heirs-general, at this day.



of Sir Robert Greystock, knt. his eldest son, who died in his life-time, his heir; which Elizabeth married Thomas, lord Dacres of Gillelland, and died 13th August, 1516, seized, as appears by inquisition, of all those manors which Henry I. granted to *William*, son of *Ulf*, her ancestor, viz. Grimethorpe, Fangfosse, Meltonby, Givendale, and many others [a]. She had issue William lord Dacres; whose grandson George had two sisters his coheirs, Anne, married to Philip Howard earl of Arundel, eldest son of Thomas duke of Norfolk; and Elizabeth, to lord William Howard, his younger brother, between whom the immense estate of their brother was divided: Anne had the baronies of Greystock in Cumberland, and Wemme in Shropshire, &c. and Elizabeth the great barony of Gillelland in Cumberland, and the ancient Grimethorpe estate in Yorkshire, of which Hynderskelfe castle near Malton was the head, where of late the fine seat called Castle-Howard has been built. From Anne, the barony of Greystock descended to the right honourable the earl of Surrey, eldest son of the duke of Norfolk, who is the present possessor; and from Elizabeth descended Charles-Frederic Howard, earl of Carlisle, who, I am told, is possessed of some of the before-recited manors, which Henry I. granted to *William* son of *Ulf* [e].

[a] A. 8. p. 335. in Colleg. Armor.

[e] Ex informat. Rev. W. Dade, Rector. de Barmeston.

I am, Sir, your most faithful,

humble servant,

*Herald's College, London,*

Feb. 16, 1778.

J: C. BROOKE.

IV. *Account*



**IV. Account of a singular Stone among the Rocks at  
West Hoadley, Suffex, by Thomas Pownall, Esq.  
F. S. A. and F. R. S.**

Read March 18, 1779.

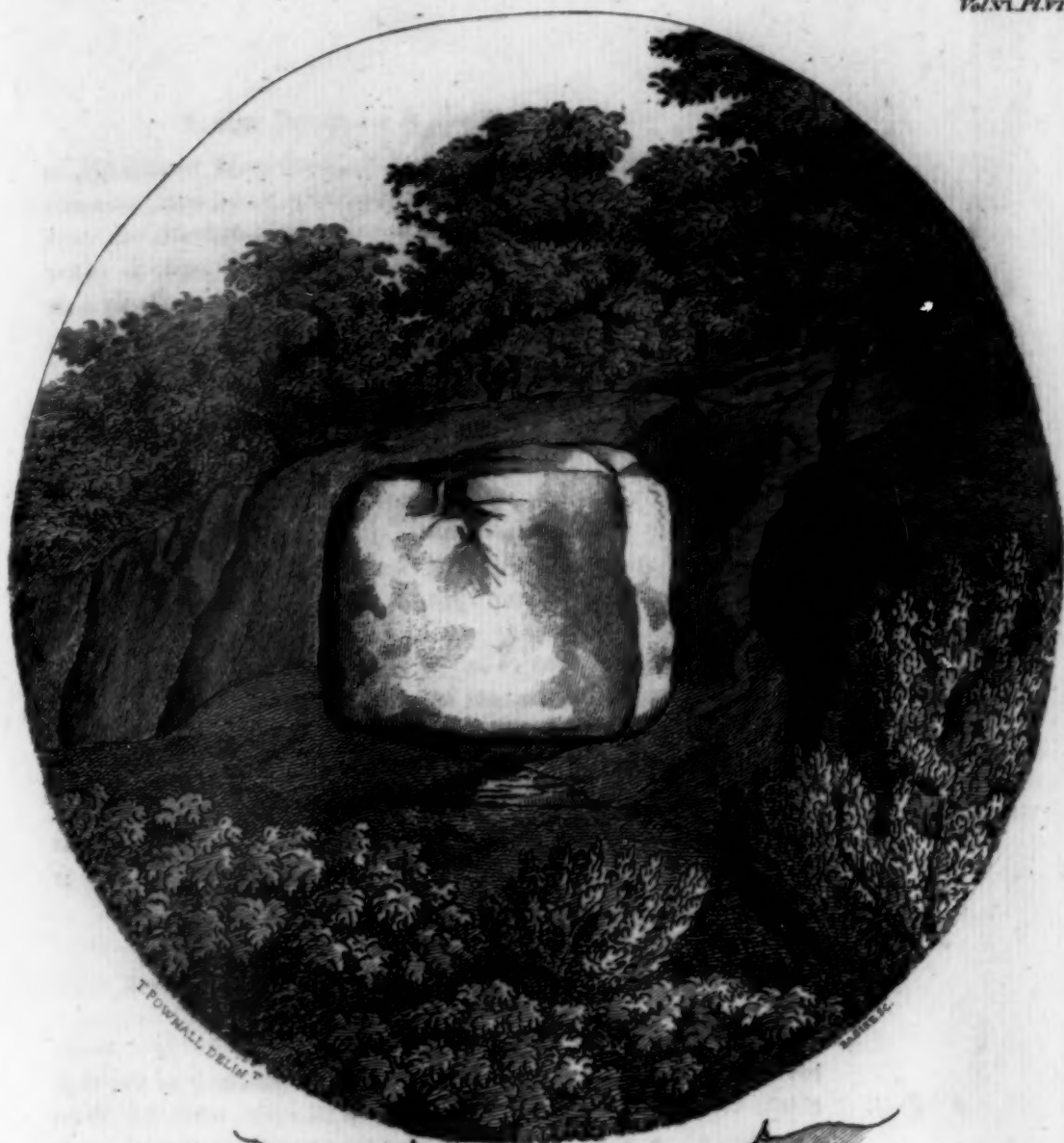
**SIR,**

**T**HE curious particulars which you had heard of, and had communicated to me, respecting the great penfile-Rock at West Hoadley, in Suffex, (called by the people *Great upon Little*), raised my curiosity, and determined me at a leisure day to make an excursion to view and examine it.

THE following description confined to the simple fact of the object, with a portrait and plan [a] of it, is very much at your service: and although I have subjoined some sentiments of an opinion which I have, from repeated views of these sorts of things, formed in my mind; yet I send them not as giving mine but with design to elicit your opinion.

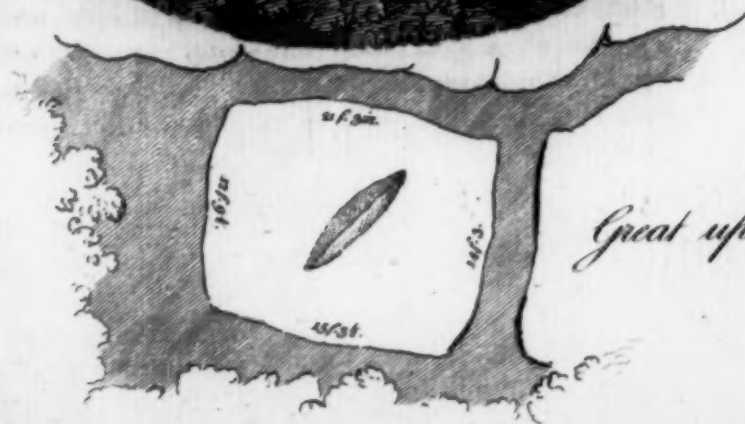
IN the parish of West Hoadley, about three or four miles south of East-Gristed, the ground in many places rises in high ridges with craggy cliffs. About half a mile west of West Hoadley church, there is a high narrow ridge covered with wood. The edge of this is a craggy cliff composed of enorm-

[a] See Plate VI.



T. POWELL DELIN.

1833.



*Great upon Little.*



ous blocks of sand-stone. The soil hath been intirely washed from off them, and in many places from the interstices by which they are divided. One perceives these craggs, with bare broad white foreheads; and as it were, overlooking the wood which cloaths the valley at their feet. In going to the place I passed across this deep valley, and was led by a narrow foot-path almost trackless, up to the cliff, which seems as one advances to hang over one's head. The mind in this passage is prepared with all the suspended feelings of awe and reverence; and as one approaches this particular rock standing with its stupendous bulk poised, seemingly in a miraculous manner, on a point, one is struck with amazement. The recess in which it stands hath, behind this rock, and the rocks which surround it, a withdrawn and recluse passage, which the eye cannot look into but with an idea of its coming from some more secrete and holy adyt. All these circumstances in an age of tutored superstition would give even to the firmest minds the impressions that lead to idolatry. The rock which stands thus poised upon the edge, almost upon the point of another which appears just above the surface of the earth, is a prodigious mass. It is a parallelopipedon, whose height is about twenty feet, and whose sides are as follows:

	feet. inches.		
1st	14	3	
2d	15	3 $\frac{1}{2}$	
3d	19	9 $\frac{1}{2}$	
4th	21	3	63—7 total.

It is not as you may imagine exactly regular, and has therefore been differently estimated from 487 to 500 tons weight: from the measurements and passing observations which I made, accept the enclosed as a rough sketch of its plan, and of its position respecting the other rocks on which it stands. I also



send you inclosed a view of it, which I composed from several views taken as I could sketch them out from different stations on the spot. It is upon the whole such a one as will give you a pretty exact idea of the rock, its position, and situation [b].

ALTHOUGH it had been represented to you as an ancient druid monument, I was not led towards it on that consideration. I am not decided to refer indiscriminately at all times these stupendous objects to the Druids and their system only. Whatever may be the impressions which these appearances at first make as effects of superior art and something above nature, they will often be found to be the mere effects of natural accidents.

THESE phaenomena however carrying in their features the marks of some operation, some activity other than the ordinary course of nature, and in the stupendous scale of their magnitude something beyond any experience of the powers of man, have naturally led minds prepared for such impressions to the idea which has been commonly expressed by the word *magic*. In less civilized or less enlightened ages they have led to actual idolatry. In ages wherein men, beginning to grow learned, affect, as the proverb expresseth it, to see further into a millstone than the vulgar eye doth, the same impressions have exactly in the same manner led to an opinion, that these objects and their circumstances must have been the holy places and the consecrated idols of some former religion. But unless I find some concomitant external circumstances which evidently mark the hand or the vestiges of man, I have always remained in doubt as to the internal evidence of their religious origin or consecration. I must own, at the same time, that the air of mystery and supernatural power which surrounds these objects naturally forms the mind to a ton of religious fanaticism, which it is not in the power of

[b] See Plate VI.



the human breast not to feel, and from these notions they have commonly and too indiscriminately been supposed to have been religious and sacred monuments, and in particular to have been those of the druid superstition. But I own that I differ from this opinion as to this object. In the first place the eastern parts of this island were not much frequented by the Druids: on the contrary, it was invaded and possessed by the Wicanders of the north-eastern people, Saxons, &c. in much earlier periods of time than our common vulgate histories take notice of. These people had their rock monuments, both civil, religious, and sepulchral, of the most stupendous magnitude, as well as the Druids. If therefore these kind of objects in these parts are to be referred to any interposition of superstition, why not to that of these people? There are in these parts many remains which are evidently and decisively theirs; but there is another origin to which they may be referred, I mean a purely British superstition, in which the missions of the Druids had no interposition. The Britons worshiped the spirit of fury or revenge under the name of *Andraft*, and sacrificed the human being to this idol. The great wild of this county was sacred to her, and was called in the British tongue *Coit-Andraed*, which the northern people translated, and named in their languages *Andraft-wald* and *Andred-beida*, corruptly written *Anderida*. If this great stone was ever any idol, why not the bloody rock *Andraft*? But without any reference to any of these superstitions, I am apt to consider many of these objects as mere natural phaenomena, whose state in which they are found may be easily explained from the common operations of nature acting on the circumstances amidst which they are found.

THESE great pensile, poised, rocking stones, or piled masses of rocks, are almost always found on the edges of craggy cliffs, or on the mountainous sides of rocky ground; where we see

how the wear and tear of time operates in such places, how the beating of storms, and wash of rains, for ages, have cleared away the earth from amidst the blocks and strata of these rocks, and left them bare, and many of them *isolées*, almost exactly as we now find them. We need refer to no other cause for these effects in the first instance; yet I do allow, on the other hand, that the interposition of man may have carried these operations further on some of these objects, than what nature would have given. After the common operations of nature (having worn and washed away the earth) may have laid open some of these strange appearances, I can suppose that man may have carried this effect still further by totally clearing away all the remaining soil that surrounded these marvellous phaenomena: that either priests profiting of their supernatural appearance, and having destined them for consecration, did thus work them up to a kind of miracle; or that the common inhabitants of the district [b] without any such design, or any design at all, have from mere curiosity, following an extraordinary appearance which struck them, done the same thing, by clearing away every thing which surrounded them, and leaving them thus naked and *isolées*. Cattle also getting into the excavations of such craggs will naturally loosen the soil about them, and render it more liable to wear and wash away. There is by the road side, which leads to West Hoadley, a very great rock, of dimensions much larger than those of the subject of this letter, from under which, and from every side of which also, except one corner which remains still inserted, the earth hath been washed away; this also rests upon a point, and with its enormous projection forms a cave, under whose shade and shelter the cattle find a retreat from heat and weather.

[b] That this great and extraordinary stone has engaged the marked attention of the common inhabitants for many ages back, may be seen by multitude of names, and initials of names, of all dates cut in every part of it.

I HOPE

I HOPE you will not conceive that I mean to account for the edifices and erections which the great *cathedral-temples* and *conventual-dwellings* of the Druids exhibit from these kind of accidents or aidings. I have, on the contrary, the most confirmed persuasion that the priests of these missions had in use a power of mechanism, not only beyond the conceptions of the ignorant people, amongst whom they dwelt, as above the human power, and therefore from the appellation of the society called *Magick*, but also above any thing (one instance excepted [c]) which modern practice knows. At the same time I do believe, that many of the lesser holy places, the *chapels* and *tabernacles* of private priests, many of the crom-lecks, kistvang, logan stones, judgment seats, oracular and sepulchral stones, have been applied and consecrated to these several purposes from the suggestions which nature, who had in part given them their form, prompted. And I make no doubt if the Druids had resided in these parts, but that they would have adopted and consecrated this our *Great upon Little*, as one of their mysterious

[c] I refer here to the moving and transporting near forty miles the great granite rock, destined for the pedestal of the statue of the Zar Peter the Great. This rock, whose weight is 1200 tons, was found sunken in a swamp. The Count Carbars, of Cessalonia, raised it out of this swamp, drew it upon rolling balls several miles by land. Then embarked it on a float, conducted down to Petersburg between two ships, and again disembarked it. The various difficulties he met with seemed unfurmountable; the various different operations which this stupendous work required, would really, had not this instance proved the contrary, have appeared to this day impracticable and impossible. The Count however, from a principled science in mechanics, which I do not believe any other man possesses, planned so simple a process of operation as was superior to all difficulties. If any thing could exceed the plan and conduct of this enlightened science. The quickness and application of those resources, by which he repaired and overcame all accidents which occurred in the execution, did so, as far as my reading goes. This work appears to me not only the greatest operation of mechanics which was ever effected in our world, but unique.

rocks, one of their symbols of the Numen, whom they taught the people to worship. Other priests also of the northern people might have done the same. The object itself would *inspire*, and the nature of the place where it is found would *conspire* to this imagination.

I COULD not, whilst I was upon the spot, hear of any other particulars than what I have beforementioned. After I was come away, I was told of a cave some where thereabouts, where a broom-maker had lived for many years. Perhaps it may become a days amusement to you, as this was to me, to go and search it out, and examine it.

I am, Sir,

Your most humble Servant,

T. POWNALL.

V. *Observations*

REAR VIEW

THE REAR VIEW OF THE BUILDING



THE REAR VIEW OF THE BUILDING



THE REAR VIEW OF THE BUILDING

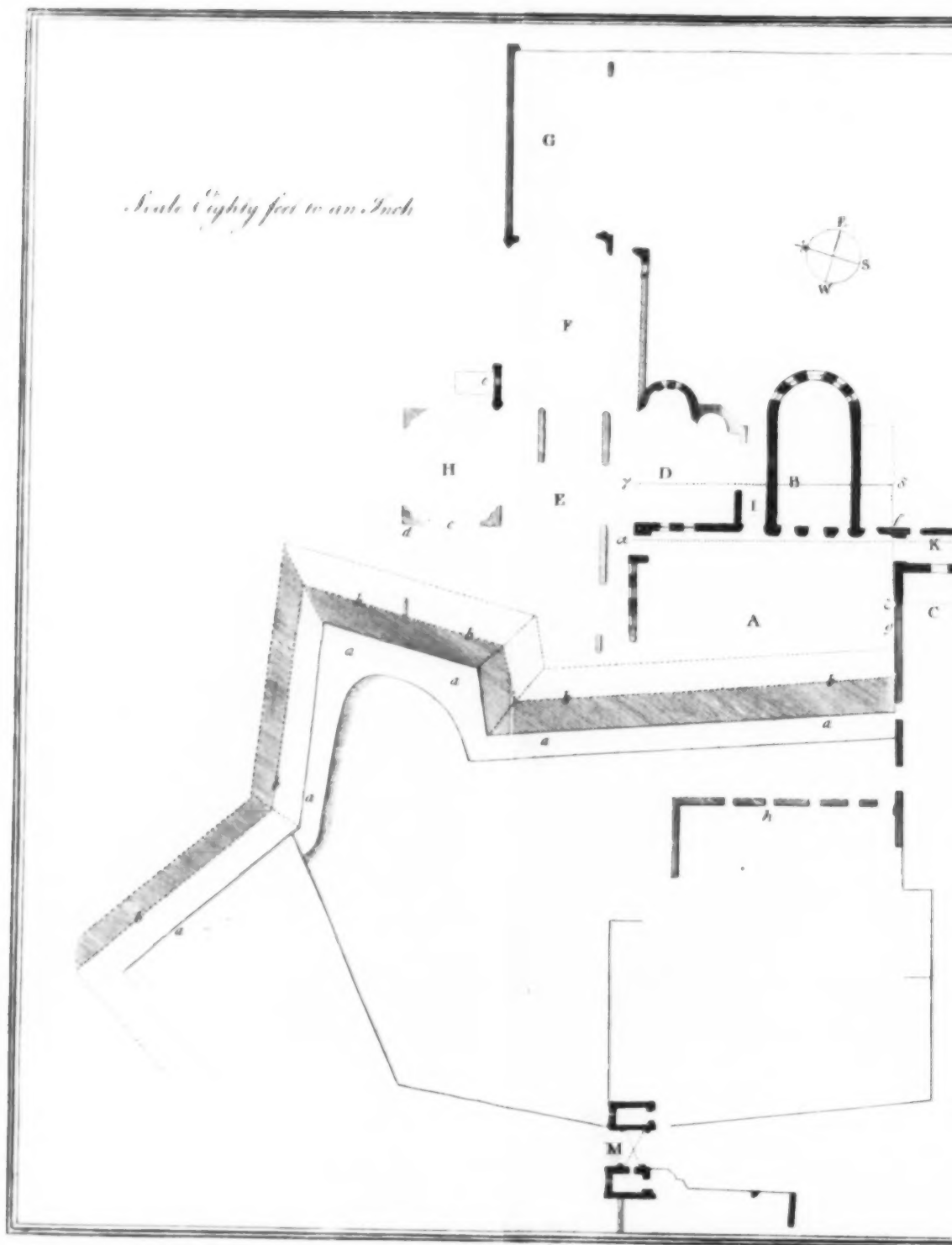


THE REAR VIEW OF THE BUILDING

THE REAR VIEW OF THE BUILDING



*Scale 60 feet to an Inch*



*General Plan of the Ruins of*  
**READING ABBEY,**

*Surveyed by*  
*Sir Henry Englefield.*  
*Feb<sup>y</sup> 1779.*

*Section through the Line a β looking East*



*These Sections are to a Scale of 40 feet to an Inch*



*Section through the Line γ δ ε ζ looking East*

Scale Eighty feet to an Inch

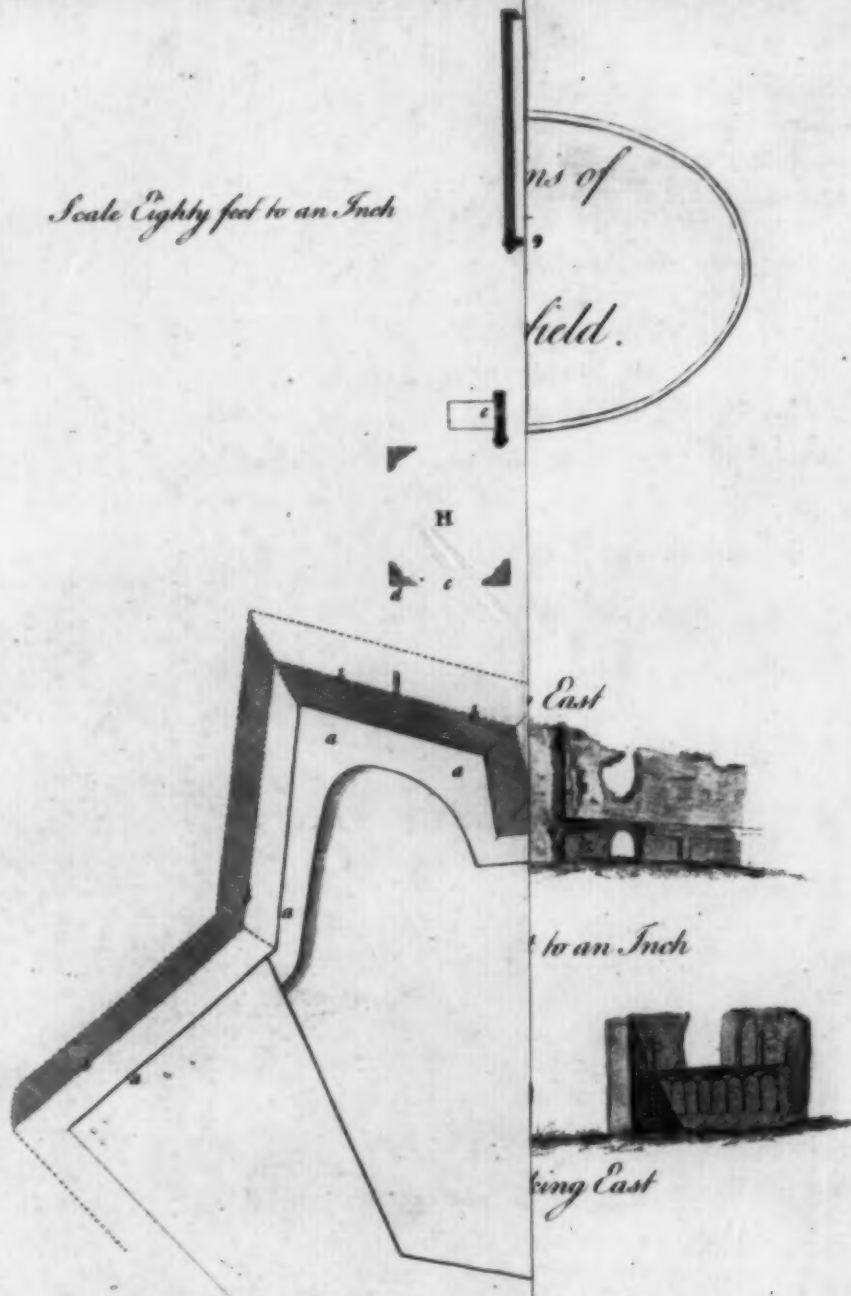
ns of  
field.

H

East

to an Inch

ing East



V. *Observations on Reading Abbey, by Sir Henry  
Englefield, Bart. F. S. A.*

Read May 13, 1779.

**T**HE abbey of Benedictine monks at Reading, founded in the year 1121 by Henry the First, rendered still more famous by his and the empress Maud's burial there, was second to few in this kingdom in its wealth, honours, and magnificence. The number of its religious was two hundred; and their abbot, who was a peer of parliament, gave place only to those of Glastonbury and Saint Albans. His abbey answered in stateliness to the rank and consequence he possessed; and a proof of that is, that parliaments and councils have more than once been held in the great hall of the abbey. The shattered and disjointed ruins of the building, which now remain, bear a character of majesty very singular and almost peculiar to themselves. Stript by destroyers of more than ordinary patience and industry, of almost every stone which cased the walls, they still, though built only of small flints, defy the injuries of time and weather, and have more the appearance of rocks than of the works of human hands. My residence in the neighbourhood has given me frequent opportunities of examining these ruins, and the plan [a] and drawings now presented to the inspection of the Society are the result of my enquiries. I make no apology

[a] See Plate VI\*.



for this communication; it has long appeared to me, that a number of surveys of the different abbeys and cathedrals of this kingdom would be a fund of valuable information for those who study the history of architecture in England. With this view principally I have made this survey. If any useful information can be drawn from it, my end is answered.

THE abbey is situated on a small gravelly eminence, hanging over the river Kennet on the south, and to the north commanding a charming view of the Thames and its opposite elegant shores. On the west it joins the town; and to the east looks over fine meadows to the junction of the two rivers. Its site was therefore dry, airy, and has an unlimited command of water, one branch of the Kennet running either in, or very near the precinct, and turning the abbey mills, which still remain nearly entire, a very curious specimen of the magnificence of the rest of the building. They are too far off to be shewn in the plan. On entering the ruins from the Forbury (a Green known from time immemorial by that name), the first striking objects are two immense masses of wall pitched with violence endways into the ground, as if by the force of powder. Advancing further amongst heaps of prostrate walls, the north side of the cloister appears, and, east of that, the remains of a singular semicircular bow, marked (D) in the plan. South of that, and separated from it by a passage arched two stories high, is the great hall, once most probably the chapter house, open to the cloisters by three semicircular arches, with a window over each, and terminated to the east by a semicircle with five large windows in it. It is now difficult to say, whether or not the windows were round-headed; they have much the appearance of an obtuse point, as have all the other windows remaining in the abbey, though the doors are every one round. The hall, though forty-two feet by seventy-nine, was vaulted with one semicir-

cular

cular arch from wall to wall, apparently with stone ribs, and the intervals filled up with a very curious substance, of which a specimen accompanies this. All those vaults which were to bear nothing were turned with this, which is evidently a tophus formed by some petrifying spring, and enclosing the impressions of twigs, &c. One leaf is very fair. This substance is very soft and extremely light, bearing only the proportion of 66 to 161 of Portland stone.

FROM what place this tophus comes I have not the least guess. Several people have thought it a fluid mortar run on the vault, but the slightest inspection refutes that supposition, as it is all squared and laid in regular courses. This attention to lightening the vaults is, as far as I know, peculiar to this building, and is probably taken from the Roman architects, to whose style indeed the whole appearance of this noble hall is strikingly similar, recalling to the mind the baths of the emperors rather than a Gothic abbey. Going southwards round the outside of this building, we came to a small door, and near it the remains of a stair-case. The door opens into a dark passage, once vaulted, and communicating with the cloisters by a great door. The area of the cloisters is now a garden; the north and east walls have been described. On the south side is a great room, once probably the refectory, accessible now only through Mr. Clement's house, its door of entrance into the cloister being walled up. This room is thirty-eight feet wide, by at least seventy-two long, and has been highly ornamented with a row of intersecting arches, and above that a sort of arcade running round it. The hollows in the wall, of the lower ornament, only remain; but the whole end of the room bears its ancient stone work in the upper order, and is the only specimen of the style of this building. The arches are rather of a singular form; but the manner of their evading the indefatigable

destroyers of the abbey is really interesting. Subsequent to the original building some alterations were made in this room when the arcades were filled up flush, and the whole wall stuccoed flat. Under this disguise the arches escaped, and now the injuries of time having peeled off the plaster and loosened the filling up, the arcades after a concealment of perhaps five centuries are once more restored to view. That this was the refectory may be conjectured still further, from the appearance of the cloister wall which has two neat stone cupboards wrought in it, and between them a rough foundation, probably of the lavatory to which the cupboards belonged, for the reception of the necessary towels &c.

THE refectory (if I may be permitted to call it so) bears no marks of ever having been vaulted. The west wall of the cloister is still about ten feet high in its whole length, and has several doors in it, great and small, leading probably to smaller offices, over which was the dormitory. This at least was the case in most abbeys, and the plan of the abbey (now cathedral) of Durham is so strikingly similar, as almost to appear the same building.

It must seem singular that I should not have mentioned the church, which in so vast a pile must undoubtedly have been of equal magnificence and solidity; but such has been the care taken to destroy it, that nothing but a very diligent search could have led me to a determination even of its site. The plan will shew how very small the remains of it are; from their situation however, north of the cloisters, (the usual disposition of our churches,) and the size of the area enclosed by the foundations, I can have no doubt of their former use.

THE dimensions of the church as deduced from these remains are as follow :

Eastern

	feet.	feet.	{ These measures are clear within the walls.
Eastern chapel	102 long,	55 broad,	
Choir	98	34	
Side aisles		19	
Transept	196	56	
Nave probably	215		

I say probably because the west end of the church is now entirely destroyed, and in its place a large and high rampart crosses the whole ruin through the cloister court, and ends in a sort of horn work, commanding the Thames and its meadows northward, as in the plan. The measure I have adopted brings the west front to range with the cloisters as it usually does.

SHOULD that have been the case, the extreme length of the church was about 420 feet; its breadth, exclusive of the transept, 92. The bow window, mentioned before to exist east of the cloisters, was probably a chapel in the south transept. There is a circumstance which is really very singular in the disposition of the walls of the church; that is, that the side aisles seem to have been separated from the rest by continued walls, which still are in some parts three feet above the turf; this indeed I cannot account for, and this alone would have led me to doubt of the church having stood as I have described, did not the whole form answer so well as to preclude any other destination to these ruins. I submit the whole to the judgement of the more learned members of the Society.

NEAR where the north transept joined the nave, a hollow remains in the earth, where almost certainly a mine was sprung, which reduced the church to an heap of ruins, and pitched those vast pieces of wall beforementioned into their present very surprising situation. Nothing now remains to be noticed, saving the outer wall of enclosure, and the great gate of the abbey which still remains almost entire. The gate is of that semi-



saxon style which seems to prevail over most parts of the building, with pointed windows, and the arches of the gate round, all but one, and that very obtuse; yet, if conjecture might be hazarded, I should set it somewhat later than the body of the building, which had Saxon ornaments profusely bestowed on it, as is evident from the stones worked up in several modern walls, whereas the gate has no ornamented mouldings whatever. Many persons now living remember its battlements. The outer wall of enclosure is very inferior in strength to the rest of the ruins, and is probably of a much later date; a flat arched gate in one part of it confirms this supposition. It takes in too great an area to be shewn in the plan, without reducing the whole to too small a scale.

THE vast strength of the walls and perfection of their cement is a circumstance very worthy of notice. They were evidently built by laying course after course of the coating stone, and running the interior parts full of fluid mortar, mixed with small flints. Where the walls were not coated with stone, I fancy boards were used to confine the liquid wall, and their traces are in some places visible. Almost every sort of Saxon moulding now known are to be discovered on the stones dispersed about the town, and some very elegant ones not very common. The stone is a hard coarse grained limestone, and contains some petrifications, but not many.

THE report of a subterranean communication with some other house is here, as in many other places, current; and a cellar is said to have a hole in it opening into the vault. From its position it must evidently have been a great drain. Persons who have dug in the ruins have with more probability thought the Chapter house to be vaulted, from the extreme hollow sound of the earth in digging. No opportunities have however offered to verify this.



[To face Vol. VI. p. 66.]

References.

- |   |                                 |                  |               |
|---|---------------------------------|------------------|---------------|
| A | The cloister court now a garden | 148 feet square. |               |
| B | The chapter house               | 78 by 42         |               |
| C | The refectory                   | 72 by 38         |               |
| D | The south transept              | }                | of the church |
| E | The nef                         |                  |               |
| F | The choir                       |                  |               |
| G | The eastern chapel              |                  |               |
| H | The north transept              |                  |               |
| I | A passage vaulted two stories   |                  |               |
| K | A passage vaulted               |                  |               |
| L | A wall once enclosing rooms     |                  |               |
| M | The great gate.                 |                  |               |
- 
- |          |  |  |  |
|----------|--|--|--|
| <i>a</i> | The top of the rampart thrown up in the civil wars, which crosses the cloister |  |  |
| <i>b</i> | The ditch of the rampart   |  |  |
| <i>c</i> | The spot where the mine was sprung   |  |  |
| <i>d</i> | The leaning masses of wall   |  |  |
| <i>e</i> | A small house built by the late lord Fane                                      |  |  |
| <i>f</i> | The remains of a stair-case  |  |  |
| <i>g</i> | The lavatory   |  |  |
| <i>h</i> | Probable situation of the dormitory.   |  |  |

Answers.

1. The altar being now a garden - 1844 (p. 66)
2. The altar being now a garden - 1844 (p. 66)
3. The altar being now a garden - 1844 (p. 66)

of the church

- a. The top of the highest tower up to the roof, which contains the clock.
- b. The clock of the tower.
- c. The iron which runs up the tower.
- d. The iron which runs up the tower.
- e. A small house built by the late Lord.
- f. The remains of a house.
- g. The tower.
- h. Probable situation of the dormitory.

VI. *Observations upon a Passage in Pliny's Natural History, relative to the Temple of Diana at Ephesus.* By Joseph Windham, Esq.

Read November 18, 1779.

THE subject of our present enquiry is a passage in the 36th book of Pliny, relating to the celebrated Temple of Diana at Ephesus: it is very concise, but so comprehensive as to have engaged the attention of many learned commentators; who in their various explanations agree in little more than in considering the text, taken as it usually stands, as genuine and uncorrupted; no verbal correction therefore can readily be admitted: it runs thus,

Plin. Hist. Nat. L. xxxvi. C. xiv.

Magnificentiae vera admiratio extat templum Ephesiae Dianae ducentis viginti annis factum a tota Asia . . . . .  
 . . . . . Vniverſo templo longitudo est ccccxv pedum, latitudo ccxx, Columnae centum viginti septem a singulis regibus factae, lx pedum altitudine, ex his xxxvi caelatae, quarum una a Scopa . . . . . Operi praefuit Cleſiphon architectus . . . . . summa miracula epistilia tantae molis attolli potuisse. . . . .

If a comma is inserted after the word *centum*, the paragraph will be according to the proposed emendation, "Columnae centum, viginti septem a singulis regibus factae" &c. In the porticos of this temple were one hundred columns, of which twenty seven were the gift of so many kings, or princes; which conveys a meaning very different from that in which this passage has been generally understood; and upon the authority of this interpretation the truth of the annexed plan must depend.

THE more antient MSS. were seldom, if ever, pointed, that having been the work of later transcribers; any alteration therefore in this particular, or the inserting a comma in a place which admits of so much doubt, may not possibly be considered as too great a liberty, especially where such addition evidently tends to elucidate the text.

ONE great and principal objection to the reading hitherto adopted, arises from the conclusions which have been drawn from it, and which are totally repugnant to the symmetry and proportion observed by the antients in the form of their temples, and as uniformly adhered to in those of which there are any remains. In no respect therefore can one hundred and twenty-seven, or any odd number of columns, be admitted in the style called *Δωδεκα*, of which the Temple of Diana is cited as an example. To this may be added the very improbable supposition that one hundred and twenty-seven Asiatic kings should each have contributed a column, whether this circumstance is considered as alluding to the former temple built by Ctesiphon and Metagenes, or to the latter, erected, or more properly repaired, in the time of Alexander; the columns, and the greater part of the materials, not being of a nature to be destroyed by fire. Perhaps when Pliny says that this building was raised at the



joint cost of the cities and communities of Asia [a], he does not mean to conclude private offerings and donations, on such occasions very liberally bestowed. It is certain, that the proposal made by Alexander of furnishing the expences for this work, provided he might enjoy the honour of the dedication, was rejected by the Ephesians.

In the memoirs of the academy of Cortona, is a treatise written upon this subject by the Marchese Poleni, who from his acknowledged skill in architecture, and profound erudition as an antiquary, has been enabled to throw light upon many passages till his time held obscure. If in the present instance his ideas fail of their usual clearness and perspicuity, it is surely to be inferred that the text itself, when rendered agreeably to its common acceptation, is deficient, and that some further illustration is necessary; his interpretation certainly deviates in many respects from the rules of that art, by him in other places so well explained. These observations must be understood of the mechanical, or architectural part of his dissertation, which upon the whole is very learned and ingenious.

[a] See Chandler's Asia, p. 137. "Croesus was at the expence of many of the columns."

(Ibidi p. 198.) Speaking of the temple at Jackly. "The fabric tottering with age was gradually renewed, chiefly by the contributions of the Stephane-phori, or high priests. For on seven columns is an inscription, which may be thus translated—Leo Quintus, son of Leo, when Stephane-phorus gave this column, as he had promised, with the base and capital. On five more of the columns—Inerecrates, son of Inerecrates, chief physician of the city, when Stephane-phorus gave this column, with the base and capital, Tryphaena his daughter herself, likewise Stephane-phorus and Gymnasiarch, having provided it."

In the court of the temple of the Sun at Palmyra are consoles projecting against the columns for supporting statues, probably of benefactors and contributors to the building. The same may be observed in the long portico.

IN the disposition of his plan, having supposed that the one hundred and twenty-seven columns of the text are not to be confined to those alone which constitute the *Διαίρεσις*, or outward portico, he includes others of a smaller diameter, placing them within as an ornament to the cella, apparently for the sole purpose of completing this number; but it does not appear that Pliny means to treat of any columns except of such as composed the exterior circumference, all equally sixty feet in height. He has also in his design very much contracted the length of this structure by allowing fifteen columns only on the sides, being one less than double the number of those in front; having followed the manner used by the Romans in later times, whose practice in this respect differed greatly from the style of that early period of Grecian architecture now under consideration.

THIS period comprehends a space of about two hundred years, from the age of Solon and Pythagoras, when the temple of Jupiter at Olympia, that of Diana at Ephesus, those of Sicily and Paestum were begun, to the time when, under the administration of Pericles, the arts of Greece arrived at their highest degree of excellence. Then was the temple of Minerva in the Acropolis erected, in exact imitation, as we may judge by the description of Pausanias, of that of Jupiter at Olympia; then probably was the temple of Diana finished, as we are informed by Pliny that it was two hundred and twenty years in building [b], and that one of the columns was carved by Scopas.

These

[b] By the following Epigram in the Anthologia, it appears that the Temple of Diana surpassed all others in magnificence.

Αντιπάρου.

Και κραναῆς Βαβυλῶν<sup>ος</sup> ἐπιδρῶν ἀγλαΐ τινος,  
Και τῶν ἐπ' Ἀφείῳ Ζητὰ καλνυγασάν,  
Καπῶν τ' αἰσθητὰ, ἃ πῶσις πόλεσσι,  
Και μέγαν αἰπὴναι πυραμίδων καμάκον,

Μουσ.

These temples had all of them in length more than twice the number of the columns in front. Thus in a very ancient temple at Corinth are 8 in front, 17 on the sides.

IN the temple of Theseus are 6 in front, 13 on the sides.

THE temple of Minerva has 8 in front, 17 on the sides.

The temples at Paestum, those in Sicily, and in the Peloponnesus, may be cited as authorities for our present purpose.

It is a conjecture not improbable, that most of these antient buildings were hypethras, or open at the top; that many of them were so is certain. Justin, speaking of the temple of Apollo at Delphi, has these words :

“ Antistites et vates advenisse deum clamant, eumque se vi-

“ disse desilientem in templum per culminis aperta fasti-

“ gia.” L. 24. c. 8.

Also Pausanias in Atticis :

Εστὶ δὲ ναὸς Ἡρας, ἣς θύραι, ἣς οροφὸν ἔχουσιν.

Euripides. Ion v. 177, speaking to the birds who built their nests in the temple :

—Χαίρων ἐν δυνάει.

Ταῖς Ἀλφειῇ παιδεύεσθαι.

Ἡ ναὸς Ἰσθμίου,

Ὡς ἀναθηματὰ μὴ βλαπτήσῃ.

Ναοὶ δ' οἱ Φοῖβου.

Μικρὸν τι Μαυρωλεὶς πελώριον; ἀλλ' οὐτ' ἐσθλόν.

Ἀρήμαιδ' ὡφίων ἀγχι σταῖα δομον,

Κεῖνα μὲν ἡμαυρῶ τοι, καὶ ἡδὲ τοσφιν Ὀλυμπου.

Ἀλλ' οὐ, σὺν πᾶσι τοῖσι παύσατο.

The idol was of very great antiquity; of wood: it was gorgeously apparelled, the vest embroidered with emblems and symbolical devices: and, to prevent its tottering, a bar of metal, it is likely, of gold, was placed under each hand. A veil or curtain, which was drawn up from the floor to the ceiling, hid it from view, except while service was performing in the temple. (See Chandler's Asia, p. 134.)

Clemens Alexandrinus de Egyptiis :

Τῶν Αἰγυπτίων ἱερῶν οἱ σοφισταὶ τὸ τῆς Ἀθηνᾶς εἶδος υπαίθρου  
αἰφωρίσασα.

ABOUT the middle of the last century the temple of Minerva Parthenon at Athens was nearly entire; round the cella was a portico of two orders of columns, supporting a roof evidently of a later construction than the rest of the building, and probably added when it was first used by the Greek Christians; this temple as well as that of Jupiter at Olympia appears to have been an Hypethros [c]. When Vitruvius composed his work, the front of this species of temple was ornamented with ten columns as its characteristic mark; but it was by no means essentially so, since the example quoted by him is an octastyle, by which he might mean to describe the temple in the acropolis. "Hujus (Hypethros) exemplar Romae non est, sed Athenis octastylus, et in templo Jovis Olympiae." At Paestum are remains of an hypethros having only six columns in front; another also in the island of Ægina.

ON the medals of the antients which have temples on the reverse, an ornament is frequently to be seen which constitutes the upper member of the cornice, and serves as a finishing to the triangular pediment round which it is continued. This moulding from its delicate form being less able to resist the in-

[c] Pausanias seems to describe an Hypethros in speaking of the temple of Minerva at Tegea.

"This temple is not equalled in splendor by any in the Peloponnesus. The lower order of columns is Doric; upon these the Corinthian; on the outside, the pillars are of Ionic work. The architect was Scopas."

The two orders of columns abovementioned formed the inclosure of the Hypethros, or open space in the centre of the cella. There is a great resemblance between the temple here treated of and that at Ephesus.

jurica









*Temple of Diana at Ephesus.*

juries of time, or violence, than any part of the entablature, is not often found amongst the remains of antiquity. Some traces of it however may be discovered. At Athens in the Choragic monument of Lykierates, where it is still preserved very perfect. See Stuart, c. III. and the ornaments at the end of that section.

IN the entrance to the portico of Octavia at Rome, this ornament [d] bears the impression of an eagle (b).

AT Carleon in Monmouthshire was a temple decorated in this manner. Many Roman tiles, stamped with a very rude representation of a Venus (c) Marina, have been found in the river Usk near that place; one of these is now at Salisbury. Many tiles of the same kind, bearing the figures of masks or other grotesque ornaments, have likewise been discovered at Pompeii. It appears that the ancients usually terminated their buildings with a moulding of this form.

It now remains that we collect into one view the most material circumstances relative to the point in question. Vitruvius, after enumerating various modes of building used in his time for religious worship, continues. "Dipteros octastylus in pronao et postico, sed circa eadem duplices habet ordines columnarum, ubi est aedes Quirini Dorica, et Ephesiae Dianae Ionica, a Ctesiphonte constituta."

PLINY has before informed us, that the columns were sixty feet in height. In the following place he determines their diameter: "In Ephesiae Dianae aede, de qua prius fuit sermo, primum columnis spirae subditae, placuitque altitudinis octava pars in crassitudine. L. xxxvi. c. 23.

VITRUVIUS, l. iv. c. 1. "Postea Iones Dianae constituere aedem quaerentes, fecerunt primum columnarum crassitudinem

[d] See Degodeiz, Piranesi Ant. tom. iii.

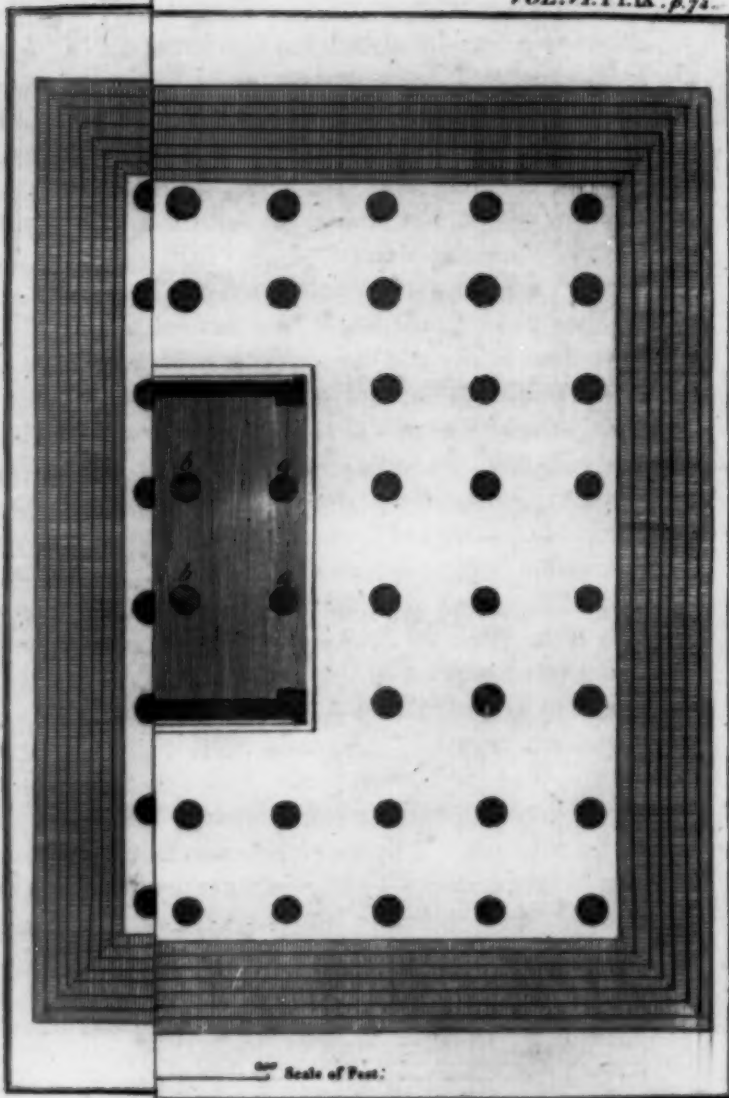
"*altitudinis octava parte.*" This diameter, or eighth part, is in the present instance seven feet six inches.

In the 4th chapter of the 4th book, Vitruvius directs two columns to be placed between the antae of the pronaos or vestibule, as in the plan (aa); these are of the same height as those in front, and are intended to separate the pronaos from the portico in temples where the breadth exceeds twenty feet. When the breadth is more than forty feet, he adds two other columns, equal in height, but something less in diameter, opposite to the former. See the plan (bb).

AFTER having thus considered the form of this temple, the number and disposition of the columns, it will be proper to shew how nearly the dimensions, according to the present plan, correspond with those delivered by Pliny.

In octastyle temples, according to Vitruvius, the species of intercolumniation, called eustyle, is to be used; and he gives as an example the temple of Bacchus in Asia. This manner is here followed, leaving out the inches in each account; thus in the side intercolumniations of two diameters and 1-fourth, will be sixteen feet; the center intercolumniation of three diameters, twenty-two feet. We are likewise told by Philo Byzantius that the ascent was composed of ten steps [r]: "*Primum quidem de foris decem graduum crepidinem artifex substituit, ad basim eminentem erigens;*" the area of the portico forming the eleventh. The projection of this whole subasement, supposing each step to project about two feet, is twenty-one feet beyond the base of the columns. These numbers produce for the length of this temple four hundred and twenty-five feet six inches; and for its breadth; two hundred and twenty as given by Pliny; the length exceeding his account only six inches.

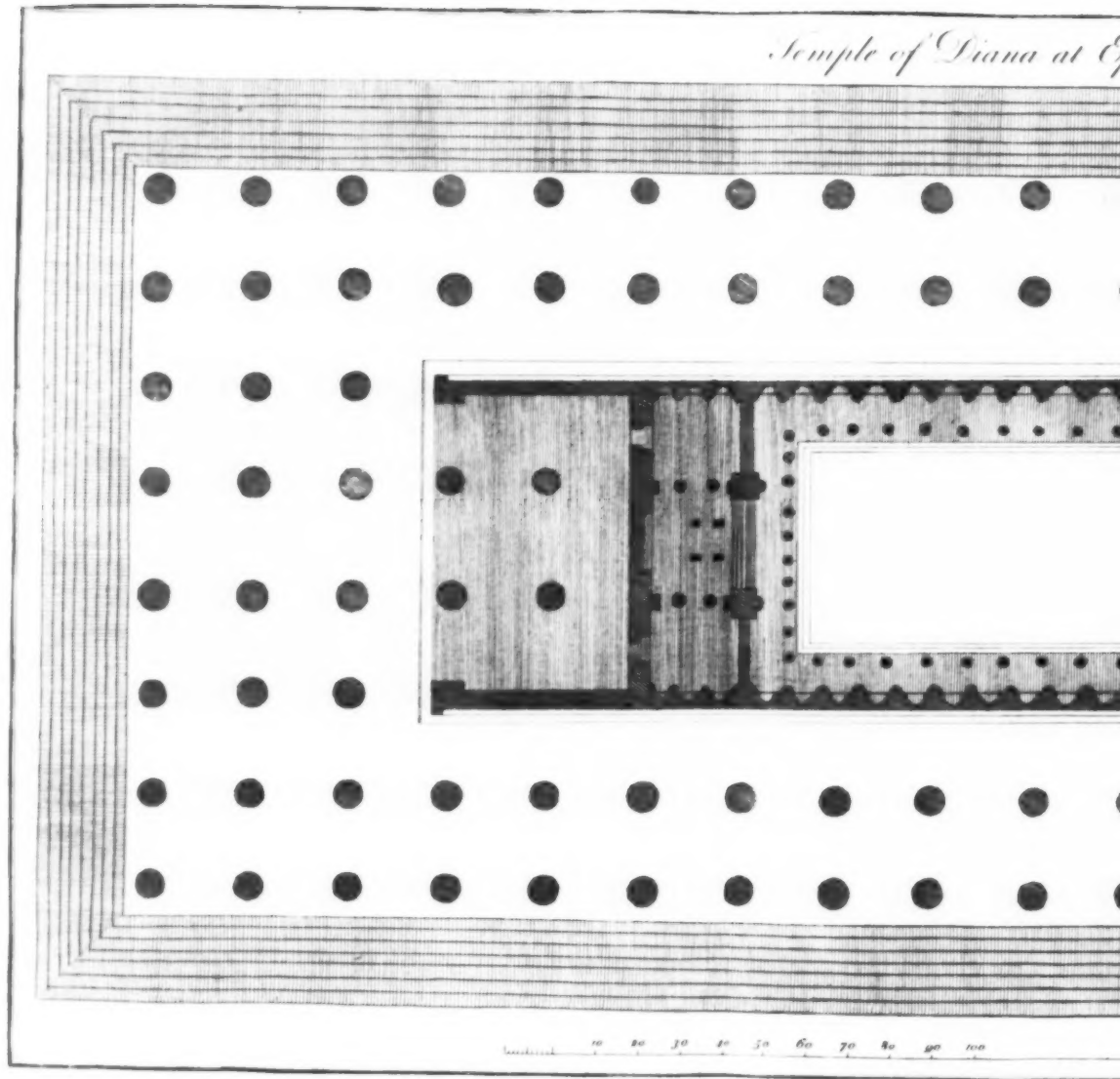
[r] V. Acad. di Cortona, t. I. p. ii. pag. 29. Chandler's Asia, p. 137.



Scale of Feet:

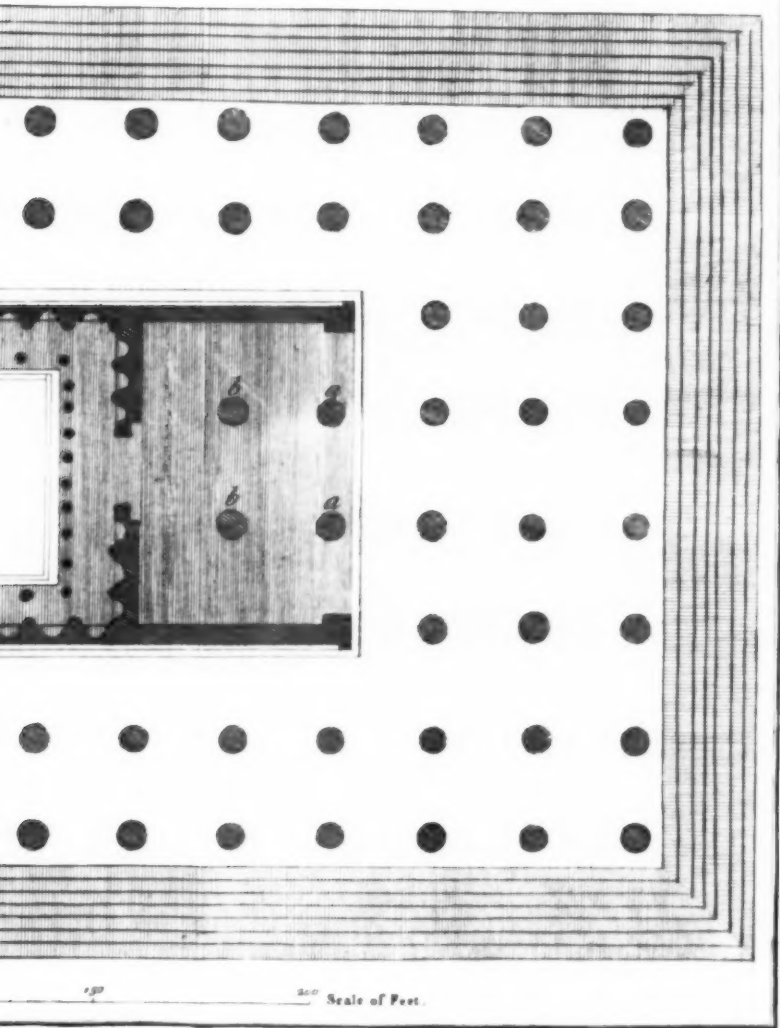
W. A. D. E. S. C.

*Temple of Diana at Ephesus*





*Ephesus.*





THE proportions of the architrave over the columns in the center may appear excessive; but it must be remarked, that the blocks of marble employed in this wonderful structure excited the greatest admiration. "Summa miracula epistilia tantae molis attolli potuisse [✓]." Over the door is said to have been a stone of so enormous a size, that the architect despaired of being able to raise it to the height required; when the goddess herself appearing in a dream, comforted him, and in the morning it was found in its proper place.

THE greater stress has been laid upon the several passages of Pliny and Vitruvius describing what existed in their time, since the very ruins of this once celebrated edifice are now so totally obliterated, that modern travellers differing from each other have not only assigned various spots upon which they suppose it to have stood, but have likewise, in direct contradiction both to the medals and the writings of antiquity, described it as of Doric construction, deceived perhaps by remains of Doric columns, which they have imagined to belong to this building.

MUCH additional information might be collected on this subject, chiefly historical; for which Chandler, Spon, and other writers, may be consulted; the observations necessary to the illustrating the given quotation from Pliny being submitted to the opinion of the Society; and these perhaps have already been too far extended.

[✓] Pliny, loc. cit.

VII. *Remarks on the antient Pronunciation of the French Language, by the Rev. Mr. Bowle, F. A. S. In a Letter to the Rev. Mr. Norris, Secretary.*

Read November 25, 1779.

REVEREND SIR,

**A**MONG the several writers who have exercised their talents on that inexhaustible fund of criticism the works of Shakespeare, Dr. Farmer in his Essay on his learning confessedly stands foremost. My present business to you, Sir, and the Society, is to point out a mistake of his, and some other commentators, on the following French passage in Henry V. act 4. "Est-il impossible d'eschapper la force de ton *Bras*?" Pistol. "*Bras*, cur, thou damned and luxurious mountain goat, offer'st me *Bras*?" Whether this came from the pen of Shakespeare or no, as it is not in the quarto of 1608 in my possession, is foreign to the present purpose, but seems to evince that it was then so pronounced, as it would now be by an Englishman totally unacquainted with the French mode of pronunciation. The assonance was undoubtedly in this instance as in what follows: French soldier. "O pardonnez moy." Pistol. "Sayst thou me so; is that a ton of moys?" Mr. Johnson makes a doubt, says Dr. Farmer [a], whether the pronunciation of the French language may not be

[a] Essay on the learning of Shakespeare, p. 87.

changed

changed since Shakespeare's time: but this does not appear to be the case, at least in this termination. The following authorities, which very probably escaped the searches of this diligent enquirer, will I think amount to proof positive, that the pronunciation of the French language has materially varied, and that it was originally pronounced as we do those French words, which are become a part of our own language. Theodore Beza in his *De Francicæ Linguae recta pronuntiatione Tractatus*. Geneva, 1584, 8vo. p. 34. speaking of the letter *f*, says, "Haec consonans suo nativo sibilo semper profertur dictionem incipiens. Intra ipsam autem dictionem, si inter duas vocales deprehendatur, tunc lenissimo sibilo ut Zain Hebræorum et Francorum Zeta pronunciatur, ut *cause*, *raison*, *ofer*, &c. quae sic effertur ac si scriberentur *cauze*, *raizon*, *ozer*: idque usque adeo perpetuum est, ut etiam haec litera dictionem finiens, et inter duas vocales deprehensa similiter pronunciatur." From whence it may be safely inferred that the *f* was not totally dropt, but was more or less retained *nativo suo sibilo* even at the end of words where no vowels followed; as *pas a pas*, *de pis en pis*, *vis a vis*, where according to Richelet in modern pronunciation *on la fait entendre*. And this genuine pure mode of expression unadulterated by modern refinement is still in use amongst us, as a *croust* of bread, *oust* a man out of his possession, *honest*, and the like. As to this last word, Pasquier, who died at 87 in 1615, says the *f* was in his youth pronounced, but afterwards turned into a very long E. The *O yes* of a modern cryer in a louder tone, but with the same modification of voice with which we sometimes express a familiar assent, may very probably have been the old manner of expression. To *calenge* is to this day in use among the commonalty in the west of England: and who can demonstrate it to be wrong? I find the word so used in the old French



French Romance of *Huon de Bourdeaux*, Ed. Lyons, 1612, 8vo. p. 618. "Je te *calenge* la terre la quelle sera mienne." It is also to be found in *Halle's Chronicle*, Edward V. f. 1. "Their father began not by war, but by law to *calenge* the crowne of England." But to return to what gave rise to this enquiry, I have only to add, that, without this pronounciation which I have endeavoured to establish, Pistol's reply is totally devoid of sense or meaning.

J. BOWLE.

P. S. As it is necessary to produce proper vouchers for what is above asserted, they are here added; with this farther view to shew that the several letters were originally pronounced distinctly. 'Voyant le monde par un jugement delicat *mots proferez* avec toutes leurs lettres estre un peu trop rudes au son des aureilles, on reforma au long aller cette grossiere façon de parler en une plus douce, et au lieu d'*eschole*, *establi*, &c. avec prononciation de chaque lettre, et element, l'on s'accoustuma de dire, *école*, *établir*, &c. vray que tousjours est demeuré l'ancien son en ces mots *espee*, et *esperer*, mais peut estre que quelque jour viendront-ils au rang des autres, aussi bien que de *nostre temps* ce mot d'*bonneste* (auquel en ma jeunesse j'ay veu prononcer la lettre de S,) s'est maintenant tourné en un E, fort long.' Pasquier, *Recherches de la France*, l. viii. ch. 1. 676. ed. Paris, 1633. fol.

VIII. Obser.

VIII. *Observations on the Plague in England, by the  
Rev. Mr. Pegge. In a Letter to Mr. Gough.*

Read January 13, 1780.

DEAR SIR,

**T**HOUGH I esteem it to be criminal in some degree to be dropping false hints and suggestions about any matters that may materially affect the public, or raising groundless fears and apprehensions concerning the plague, or war, or any other the like alarming subjects; yet I doubt I shall be but too well justified in declaring, that at this juncture we appear to be in imminent danger of having the pestilence imported into this island. It now rages violently at *Constantinople*, in the *Levant*, and in *Africa*; insomuch that all the neighbouring nations, as we learn from the public prints, are taking all necessary precautions against it; and administration here at home have thought proper to double the quarantine.

THE great port of *London*, and the out-ports, have doubtless the most reason to be upon their guard on these terrifying occasions; but give me leave, Sir, nevertheless, to observe to you, that even we, who live at so great a distance from the metropolis,

polis, or any other sea-port, are not totally exempt from danger, whenever the plague happens to invade this kingdom, as will appear from the relation which I am now going to give you of what formerly passed, in reference to the plague, in this inland county of *Derby*.

AT *Chesterfield* the plague began 2 October, 1586, as is expressly remarked in the parish register, where in the margin it is called the great plague to distinguish it from a less fatal infection that broke out A. 1608-9. In November there were fifteen burials; after which it seems to have ceased for the winter, but appeared again in May 1587, where there were fifteen burials, and in June fifty-four. It continued to rage till November, for as in the month of December there are only five deaths, which is scarce more than common in this large parish, it may be said to have stopt in November. The latter or lesser plague at *Chesterfield* began 18 March 1608-9; so it is noted in the margin of the register again. This seems to have lasted only April and May, and not to have been very fatal.

THE plague, Sir, raged at *Brimington*, a hamlet in the parish of *Chesterfield*, at the beginning of the last century. But the best account of it that can now be procured, is deficient in one material respect, since it never could be known with certainty, not even after the strictest enquiries, in what manner the distemper was brought thither. But though the mode of conveyance be not precisely known, yet, in all probability, it came from *London*, where, according to Mr. *Stowe*, it raged furiously the same year [a], and from whence many people then fled into the country [b]. However, *the sickness*, as it was commonly then called, appeared at *Brimington* at the end of October 1603, between which time and January 2 following there died, at

[a] *Stowe*, p. 857. Dr. R. Brooke's *Hist. of Pestil. Distempers*, p. 33.

[b] *Stowe*, *ibid.*

this small place, and were there buried, five men and four women, as appears from the parish-register of *Chesterfield*. The distemper never spread thence to *Chesterfield*, nor into any other neighbouring places, so far as can now be discovered: indeed, as to the adjoining parish of *Whittington*, whence I write this, proper precaution was taken to prevent its getting thither; the bridge, called *Goose-Acre-Bridge* (so named from a field at the foot of it,) and then the principal communication with *Whittington*, being pulled down at this time [c], that so all intercourse might be broken off with the infected at *Brimington*.

THE measures pursued by the inhabitants of *Brimington* among themselves are only known by tradition, which informs that some cabins were erected in a field there now called from thence *Cabin-field*.

THE plague appeared at *Belpar*, in the parish of *Duffield*, A. 1609. I don't find the infection at London in that year, but Stowe observes, that A. 1604 it pleased the Almighty to visit the *whole land* with pestilence, London only excepted; whence it should seem to have continued dispersing itself, for some years, in country places, or rather the seeds of the disorder lay hidden in cloaths, or other receptacles favourable to them [d]; however, the malady broke out at *Belpar* A. 1609, and fifty-

[c] This bridge, of which some remains are now to be seen in the river Rother at low water, was never after re-edified; for though one Martin Wostenholme, of *Eckington*, wanted to have it rebuilt, and for that purpose indicted it, the people of *Brimington* stood trial with him, and cast him at the quarter-sessions, about A. D. 1692. A lane goes down from *Brimington* northward to the place where the bridge stood, and another from *Whittington* southward, and these lanes plainly point out the *quondam* site of the bridge. This was then a great road for packhorses from the vicinal parts of *Derbyshire* and *Yorkshire*, which, after they had crossed the water, proceeded through *Brimington*, and over the moor there, for *London*. The only road from *Whittington* to *Brimington* now is by the New Bridge, so called in respect of that *old* one pulled down as above.

[d] See Dr. Mead's works, p. 290.



one persons died of it there, between May 1 and September 30, as the register of Duffield shews. This again appears to have been a confined and very local disaster, since one does not hear of its spreading into any other places in that neighbourhood.

THE plague again just made its appearance (for it did not spread even in the place) at Holmesfield in the parish of Dronfield, about the same time, as we learn from this single entry in the register of Dronfield; "William Townesend, curate of Holmesfeild, who died of the plague, was buried in Holmesfeild chappell yeard 12 Mar. 1669."

IN the close of the year 1664 began that ever memorable plague at London, which, in a little above a year, killed, as Dr. Hodges [e], Dr. C. Brookes and Monf. Rapin tell us, 100,000 persons [f], and was carried to *Eyam* in the *Peak of Derbyshire* by means of a box sent from London to a Taylor in that village, containing some materials relating to his trade [g]. Dr. Mead's narrative concerning its ravages there is as follows:

‘ A SERVANT, who first opened the foresaid box, complaining that the goods were damp, was ordered to dry them at the fire; but in doing it was seized with the plague, and died: the same misfortune extended to all the rest of the family, except the taylor's wife, who alone survived. From hence the distemper spread about, and destroyed in that village, and the rest of the parish, though a small one, between two and three hundred persons. But notwithstanding this so great violence of the disease, it was restrained from reaching beyond that parish by the care of the rector; from whose

[e] *Loimologia*, p. 28.

[f] Others say, 68,596. Dr. Hodges in the Table; Annot. on Rapin II. p. 641. Maitland I. p. 430. Here they speak of the Bills of mortality merely.

[g] Dr. Mead, p. 290.



‘son, and another worthy gentleman, I have the relation. This clergyman advised, that the sick should be removed into huts and barracks built upon the common; and procuring the interest of the then earl of Devonshire, that the people should be well furnished with provisions, he took effectual care, that no one should go out of the parish; and by this means he protected his neighbours from infection with compleat success [b].’

THE rector here commended, both for his care and tenderness towards his parishioners, and his prudence in conducting this dangerous business so happily, was the Rev. Mr. William Mompeyson; and his wife [i], who was before consumptive and insisted upon staying with him, when he sent his children away from the place, died of the distemper. Mr. Mompeyson, in a letter I have seen, says, seventy-six families were visited with the calamity, and two hundred fifty-nine persons died. His man-servant had the distemper, and upon the appearance of the tumour he gave him several chymical antidotes [k], which had a very kind operation, and with the blessing of God kept the venom from his heart, as he expresses it [l], and after the tumour broke he was well; his maid, a circumstance very fortunate for him, continued in health all the time. The defunct were interred on the common abovementioned, where the grave-stones of several are still remaining. I would add, that Mr. Robert Standley, who had been minister and register here, but displaced A. 1662, continued at Eyam all the time of the pestilence, ‘And, as my author writes, though not then a mi-

[b] Dr. Mead, p. 291.

[i] Catharine, daughter of Ralph Carr of Cocken in bishoprick of Durham, Esq. She died Aug. 25, 1666.

[k] See the Directions for the Plague by Coll. of Physicians 1665. in Ded. and p. 33.

[l] See Dr. Hodges, p. 74.

‘ nister of that place, yet he shewed himself both a minister,  
 ‘ and did many good offices to that place, during that sore and  
 ‘ very mortal visitation [l].’

‘Tis observable, that the poor patients, Mr. Mompeffon’s prisoners, as one may term them, at Eyam, principally depended on the liberality, countenance and interest of William, the third earl of Devonshire (who came to the title A. 1628 and died A. 1684) for their maintenance and support, during this horrible calamity. But this, I imagine, might be partly in consequence of the orders, or directions, issued by his majesty and the privy-council, empowering the justices to levy money for the service of infected places, as was usual on such occasions. I say *as usual*; for though the regulations given out at this time, when the malady was so grievous and extensive, have not at present occurred to me, yet one has reason to infer the existence of them, from former precedents and practices [m]. I find in certain memorandums taken by me from Sir Edward Dering’s library at Surenden, that when the town of Ashford, and Kennington, a village in that neighbourhood, were visited with the plague A. 1625 [n], the justices, 4 July, directed the lower half-hundred of Calehill to contribute 1 *l.* 19 *s.* 6 *d.* towards their assistance, the inhabitants of Ashford and Kennington not being able to defray the necessary expences; and this was *in pursuance of the statute and orders* from his majesty and lords of the council. The plague increased at Ashford, and in a second letter, 1 August, 1625, the justices set forth, that the inhabitants are not able ‘ to relieve and orderly to attend the sick, and to beare  
 ‘ about the charges of theyr other poore artificers, who for

[l] Porter’s Life of Mr. John Hieron, p. 51.

[m] Strype on Stowe’s Survey of London, II. p. 544. 565.

[n] This was a very destructive plague, Stowe, p. 1041. Maitland, I. p. 299. 430. Rapin, II. p. 244.

\* want of trade must of necessity be provided for, or els they  
 \* will be forced for the succor of theyr lives to *break forth* of  
 \* *that towne*, to the great danger of the country; and for that  
 \* *by the law, and by vertue of a late order commended from his*  
 \* *majesty's privy-council* to be executed during this tyme of in-  
 \* fection, we are to take order for theyr reliefe, taxing and as-  
 \* sessing the inhabitants within five miles of the places infect-  
 \* ed, or to extend the said taxing to other parts, or in any  
 \* other limitts, as to us shall be thowght requisite; and there-  
 fore they order the said half-hundred to collect 3 *l.* intended  
 for a month's provision for the poor people of the town of  
 Ashford.

Thus it should seem, that if the earl of Devonshire and the  
 rector of Eyam had no exprefs directions given them by autho-  
 rity at this time, they followed those which had been issued on  
 the like occasions in former years, particularly those of A. D.  
 1625, which regulated the proceedings of the Kentish magis-  
 trates. However this may be, the measures pursued at Eyam  
 were certainly the wisest that could be devised, as is clearly  
 démonstrated by the event, since the distemper never extended  
 itself beyond the bounds of the parish.

I am, Sir,

Your most obedient Servant,

Whittington, Oct. 28, 1778.

SAMUEL PEGGE.

P. S. As it was common for people, especially the opulent,  
 to leave the city, and fly into the country, in times of such ge-  
 neral mortality, as has been noted above [o], so it is said a  
 lady of fortune, whose name cannot now be recovered, came to  
 Chesterfield A. 1603 or 1625, along with Paul Fletcher, Lon-

[o] See also Dr. Hodges, p. 12. 15. 25.

don carrier, bringing all her money, jewels, and other valuables with her; that she died there, and Fletcher succeeded to all her wealth. 'Tis certain, that this Walton about that time, bought the whole estate at Walton of Sir Arthur Ingram, and afterwards sold off a good part of it. He was buried at Chesterfield, 4 March, 1663-4, under the description of Paul Fletcher of Walton; and left his estate to Paul Jenkinson, who, I think, was his great nephew, was afterwards created a baronet 1685, and became patriarch of the now-extinct family of Jenkinson of Walton.

\* \* \* The register of *Enfield* parish, which, including the Chace, then less populous than at present, is twenty miles round, says that in the plague of 1603 here died one hundred and eighty persons, of whom seventy-one were women. In that of 1625 sixty-seven, including twenty-six women; in 1665 fifty-five; so that the first of these three was far more fatal than the last, though distinguished in our Chronicles by the name of the *great plague*. Notwithstanding it is much easier to account for the number of persons dying of it at the distance of only ten miles from the capital, the disproportion of deaths in the several plagues in the same parish, can only be accounted for by supposing that of 1603 to be the attack of a new disorder which the faculty had not experience to oppose. But against that conjecture the same registers hold out an objection; for the plague carried off here in 1593 fifty-seven, in 1594 two, in 1609 thirteen, in 1631 five; but the number of burials in a day imply that it continued some months this year; in 1636 three, in 1637 ten, in 1642 one, in 1645 five, in 1647 seven, and of these the very first year the plague was felt here was less fatal by two thirds than 1603. R. G.



IX. *A further Description of antient Fortifications in the North of Scotland, by Mr. James Anderson, in a Letter to the late John Lind, of Lincoln's Inn, Esq.*

Read January 13 and 20, 1780.

REVEREND SIR,

I HAD some time ago the honor of communicating to our Society some remarks of Mr. Anderson on antiquities remaining in the north of Scotland. The Society has judged them worthy of a place in their late publication [a]. I persuade myself therefore I shall be rendering an acceptable service to the Society in communicating to them some farther remarks of the same very ingenious gentleman on the same subject, and which I have now the honor of inclosing to you.

I am, with the highest regard,

Reverend Sir,

Your most humble

and obedient servant,

Lincoln's Inn, Dec. 9, 1779.

JOHN LIND.

To the Reverend Mr. Norris,  
Secretary to the Antiquarian Society.

[a] Vol. V. p. 241—266.

DEAR



DEAR SIR,

AS the account I sent you some time ago of some remain of antiquities in the North of Scotland gave you satisfaction, I now send you a few additional remarks on the same subject, particularly with regard to the vitrified walls, the existence of which I have been told is still doubled by some sceptical philosophers in the metropolis.

I HAVE now examined several other hills fortified after the same manner as that at Knockferrel, but I find they differ from each other in some particulars. At Knockferrel the vitrified crust surrounded the wall only on the outside whereas at Tap-o-noath in Aberdeenshire where a large fortification of this kind has been, the vitrified crust is only discoverable on the inner side of the wall without any marks of vitrification on the outside, except at one place, where the whole of the conical wall is incrustured on both sides. I apprehend indeed that the whole of the wall on this hill has been originally incrustured on both sides, but as it is very steep and has probably been built very near the edge of the precipice, the foundation has gradually given way so as to allow the vitrified crust on the outside to slip down the hill, at the foot of which large masses of it are still to be found in abundance, and being thus demolished nothing now remains on that part of the wall but the loose stones that formed originally the heart of the wall tumbled also in part down the hill, whereas the vestiges of the inner crust whose foundations remain firm are still distinctly perceptible. The hill on that part where the wall remains entire is less steep than the other part of it; the green sod remaining entire to the very foot of the wall, which seems to confirm this conjecture.

ON the top of the hill called *Dun-o-deer* in Aberdeenshire, there are also vestiges of a fortification of the same kind, but as  
I here

I here observed some particulars that I did not discover in any of the other hills of the same clifts that I examined, I took a drawing of the ground plan of it, with two perſpective views which I incloſe for your inſpection [d].

THIS is a beautiful green hill ſituated in the middle of the extenſive vale called the *Gariocts*. This hill was celebrated by Boethius, as containing inexhauſtible mines of gold in its bowels, from which there iſſued ſuch a ſubtile effluvia, or exudation, or what you pleaſe to call it, as tinged the teeth of the ſheep which paſtured upon it in his days with a beautiful golden hue. But he lived in that age where alchemy flouriſhed, ſo that it was no difficult matter for them to convert iron into gold.

ON the top of this hill, beſides the vitrified wall already alluded to, there are alſo the remains of another antient ſtructure of ſtone and lime, which is by the vulgar ſuppoſed to have been the palace of one of the kings of Scotland. It diſcovers no remains of princely magnificence, and has been evidently a ſtrong hold erected at that period when every princely baron was obliged to have ſuch habitations for ſecuring himſelf and his vaffals from the ſudden attacks of his barbarous neighbours. This caſtle has been originally a ſquare, ſixty feet on each ſide the walls about twelve feet in thickneſs, with ſmall windows, in the common ſtyle of building in thoſe days. It is now in rubbiſh except a ſmall part of the weſt wall which was lately repaired, ſo as to keep it from falling, at the expence of the neighbouring gentlemen who wiſhed to preſerve it on account of its pictureſque appearance which is ſeen from afar. The ſite of this building is marked on the plan at H.; the part that is ſtanding is ſhaded black.

THERE is no tradition of the time when either this ſtructure or the vitrified walls were erected; but it is ſufficiently apparent

[d] See plates IX. X.

that the latter must have been of a date much prior to the former, and built by a nation in a very different state of civil polity; for at that latter period the lord of the domain having found, we may suppose, the old vitrified fortification inadequate to the purpose of defence, or inapplicable to the state of his private affairs, has purposely demolished them, and with their ruins erected his own habitation. This is evident from the fragments of the vitrified walls and scorched stones, which are every where discoverable in the ruins of the stone and lime building.

THIS circumstance deserves in my opinion to be particularly attended to, as it serves to throw some light upon the antient state of our civil polity, and its revolutions, where more distinct records are wanting. In the infancy of society, perhaps, in all nations no man assumed any other authority over others than what was voluntarily yielded on account of his age, experience, or superior abilities, whether mental or corporeal. But man could hardly be placed in society before he would discover that without the assistance of his fellows he was a weak defenceless animal; so that, although each might live independent of another while at peace, when any danger threatened they would find the necessity of uniting together for mutual defence, and of submitting for the time to be directed by the wisdom of some man in whom they in general placed confidence. In this state of society it would exceed the power of any individual to render his own place of residence sufficiently strong to resist the attacks of any invading power, and therefore it would become the interest of the whole community to fortify, in the best fashion they could, some places of strength to which the whole community could retire for safety in times of danger. So long as they continued to migrate from one region to another in *bordes* this place of strength would be only a temporary fortification, of the nature of a camp; and this seems to have been the stage

stage to which the Germans had arrived in the time of Tacitus. But in a more barren country, where grain could only be raised with ease on those spots which had been already cultivated, and in a state of society somewhat more advanced in civilization, when some idea of private property began to take place, the man who at a great deal of trouble had cleared a small spot for himself, and erected an habitation that could stand for more than one season, would look out for a place of strength not far from himself, to which he could retire occasionally in case of danger, which he would fortify in a durable and substantial manner. In this stage of society have in all probability these vitrified fortifications been reared, which served not as a place of continued residence to any one, but merely as a place of temporary retreat when any national danger threatened which individuals were not able to repel.

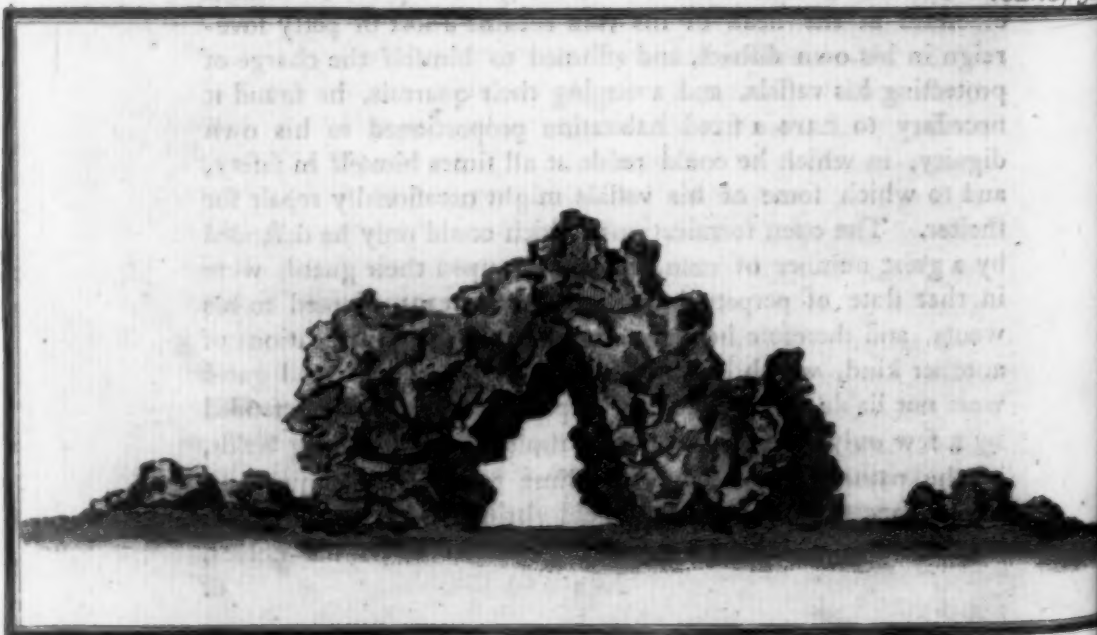
BUT when, at an after-period, honours and fiefs became hereditary, when particular families waxed great in power, and each chieftain at the head of his clan became a sort of petty sovereign in his own district, and assumed to himself the charge of protecting his vassals, and avenging their quarrels, he found it necessary to have a fixed habitation proportioned to his own dignity, in which he could reside at all times himself in safety, and to which some of his vassals might occasionally repair for shelter. The open fortifications, which could only be defended by a great number of men, perpetually upon their guard, were in that state of perpetual alarm by no means adapted to his wants, and therefore he had recourse to smaller fortifications of another kind, which by the strength of their walls and gates were not liable to be suddenly surprized, even when defended by a few only. This gave rise to those numerous strong holds, of the nature of the stone and lime tower now in question, which superseded the use of the old vitrified open forts, which were either neglected and suffered to fall to ruin of themselves,



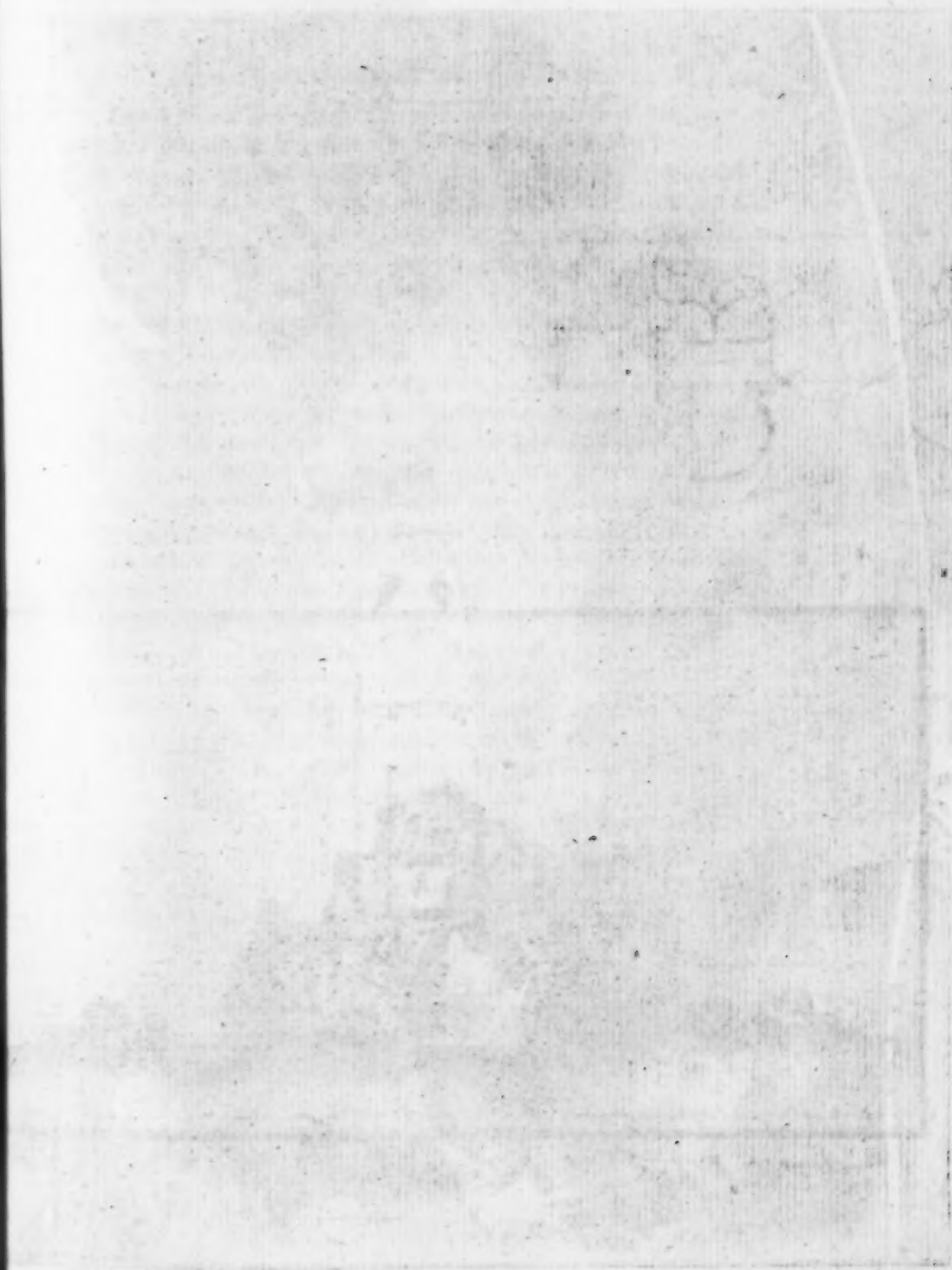
or were pulled to pieces like that of Dun-o-deer, to afford materials for a dwelling better suited to the wants of the owner.

FROM this cause the ruins of the vitrified walls on the top of this hill assume a very different appearance from the others already mentioned: where the vitrified matter has been so ill compacted, as to admit of being broken into small pieces, they have been carried away, and the walls razed to the very foundation; but, where these vitrified masses were too firmly united to admit of being easily broken into small pieces, they have been suffered to remain in their place, where they still exhibit to the eye of the curious traveller venerable remains of ancient art now mistaken by the careless for the operations of nature, some of which assume a beautiful and picturesque appearance, as may be perceived by the faint representation of them annexed, which has been perforated by a hole like a natural rock.

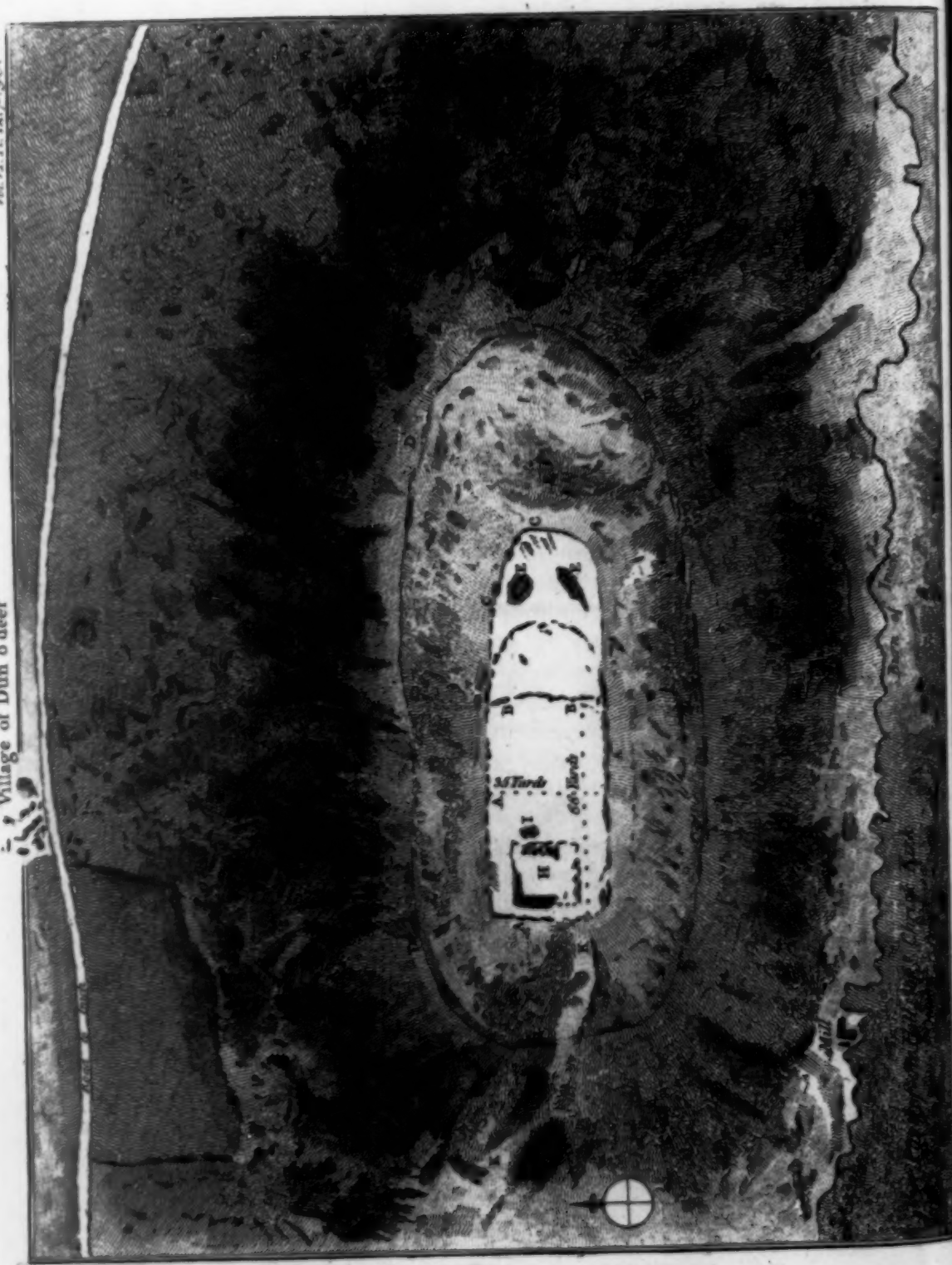
Vol. VI. p. 92.



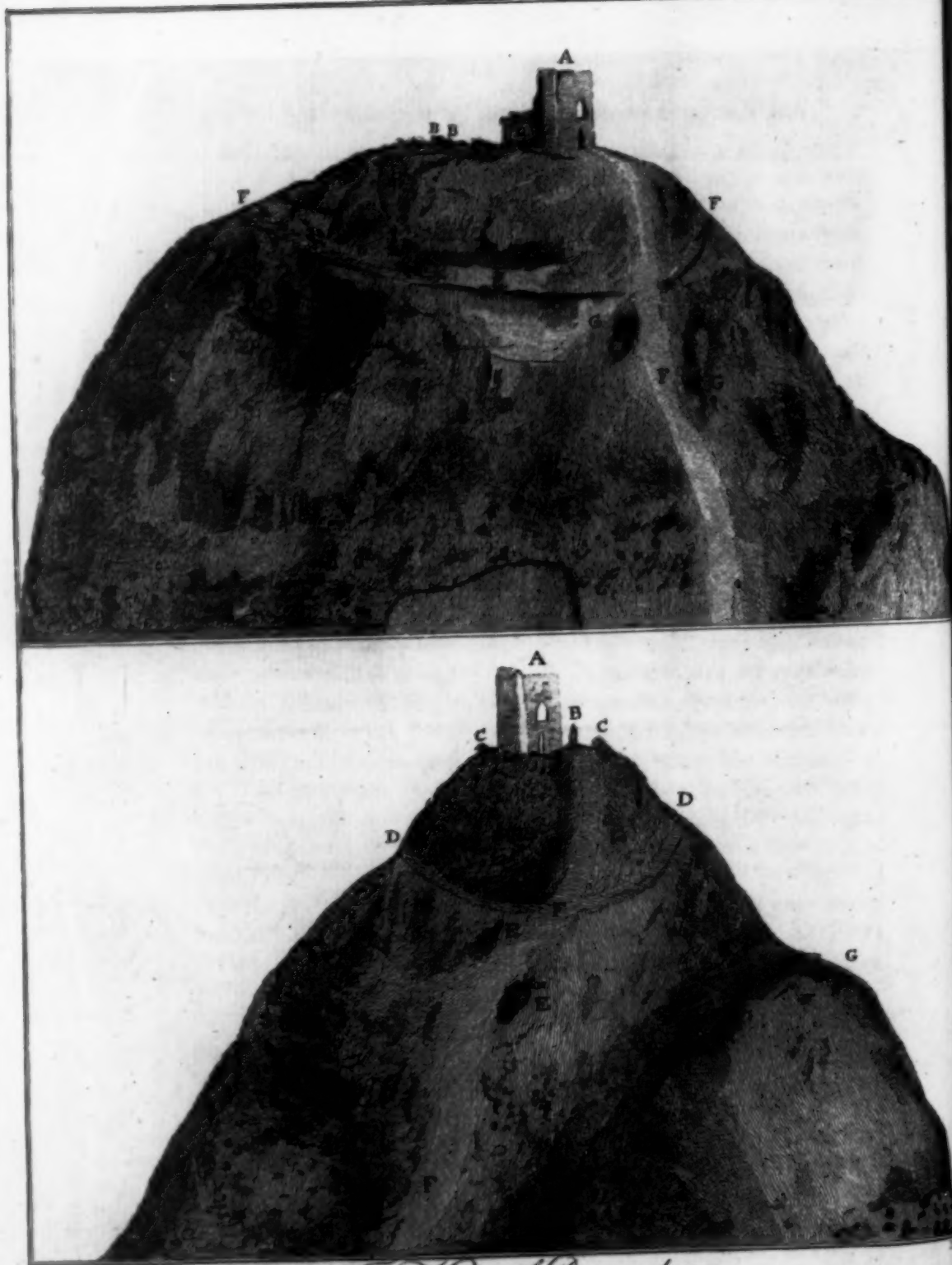




Village of Dun o deer







Two Views of Dun o' deer.



These ruins are indeed the firmest masses of the kind that I have met with. Here, however, as was to be expected, we in vain look for the large backing of loose stones to be found in all the other buildings of this kind that I have seen: they have been carried away to the stone and lime tower, and nothing remains but masses of the vitrified rock, if I may venture that expression, stripped entirely naked, rising up in irregular masses round the hill: yet even here some stones are found with one end immersed firmly in the vitrified matter, while the other end projects considerably beyond it, and is only browned by the heat. This circumstance sufficiently marks that these walls must have been built after the same general plan with the others of this class.

THE entry to both these castles has been from the west near the stone and lime tower, where the hill is of more equal ascent than at any other place, although the descent towards the east is, near the summit, much more gentle than towards the west, which has occasioned some additional works there, the traces of which are still sufficiently distinct, and are delineated on the plan for your inspection (see pl. IX.), where AAAA is the vitrified wall surrounding the whole hill. BB is the remains of another wall that has been drawn right across the hill, at that part where the descent to the eastward begins to be perceptible. No marks of vitrification are discoverable in this wall. CCC is the remains of a ditch, with a rampart stretching out beyond the vitrified wall still farther to the eastward. Beyond that, and considerably down the declivity of the hill, is the remains of another ditch of circumvallation DDDD seen in the perspective views of the hill at DD pl. X. fig. 2. and FFF in the same plate fig. 1. Below this, in some parts of the hill, there are some indistinct marks of another ditch; but this is now in a great measure obliterated, except in that part of the hill marked G. fig. 3.

BESIDES

BESIDES these lines of circumvallation, which have been evidently intended for defence, there are several excavations in the hill plainly artificial, the intention of which is not quite so obvious; although I think it probable that they also were meant for defence. Two of these are found between the circular rampart to the east, and the vitrified wall at EE, pl. IX. These hollows may be about five or six feet deep, with an easy and smooth descent to the bottom from all sides. The hill is at this place only of a gentle declivity, which would render the works more difficult to be defended than where it was more steep; which gives room to conjecture, that these cavities might either be intended to screen the defendants on ordinary occasions from the missile weapons of the enemy, by way of guard house, or to conceal a body of men by way of ambuscade. Upon examining the face of the hill along the east side where the great ditch of circumvallation runs along a more level surface than at any other part of the hill, and where it is of course much more liable to be forced, four more excavations of the same kind were discovered, which are marked FFFF, fig. 1, nor could I perceive any more of the same kind in any other part of the hill, save two on the west side near the entry marked GG, fig. 1. I leave you, Sir, and others to conjecture what may have been the intention of these hollows. For although I do not forget that fame has placed gold in the bowels of this mountain, which might have induced some persons to dig in search of these imaginary treasures, yet there seems to be little reason to suppose that these cavities have been formed by that means, as they are greatly too wide for their depth, and as the rubbish that has been taken out of them has been carried clear away, which it is natural to think would have been tumbled carelessly down the hill from the mouth of the hole, had they been opened only in search of treasure.

It

It has been said that these vitrified walls are no where to be found but where the rock on which they stand is of the *plumb-pudding* kind; but this I can assure you is a mistake. The hill of Tap-o-noath consists chiefly of small fragments of rotten granite, that of Dun-o-deer is a mass of flaty iron gravel.

You will probably recollect that in my last I hazarded a conjecture, that the circular towers called *Duns* were of Norwegian extract. Since that time I have made enquiry if they were common in the Orcades, which must be the case if my conjecture be right. By a letter from Arthur Nicolson, Esq. jun. of Lerwick, I learn that buildings of that kind are extremely numerous through all these islands. Some of these he says are surrounded with a kind of moat or ditch, from which circumstance, and in compliance with the prevailing opinion, he conjectures that they have been places of strength, or alarm-posts for warning the country of danger. My reasons for rejecting both these opinions, with regard to those at least in the north of Scotland, are given in my former letter, to which I here refer. But that you may the better judge of the nature of these structures, I shall transcribe a part of Mr. Nicolson's letter, giving a description of the most entire structure of that kind which is found in that country.

" I SHALL give you an account of the principal one, which I conjectured to have been the residence or strong hold of their prince for the time. It is situated on a small island about half a mile long, lying off the S. E. end of this country. This castle stands about twenty yards from the sea, and seems to be of a different kind from any others in the country, there being no ditches round it; but I can trace a slight stone dike that has encompassed it. This castle is by far the most entire of any in this country, it being still forty-five feet high. It is built round a circular court twenty feet diameter. You enter through the

the wall from the side next the sea by a low door into the court, on the opposite side of which is a door raised three feet from the ground which leads to the stair. The stair is placed at the heart of the wall, and leads up by high narrow steps to the top of the building. The thickness of the wall is sixteen feet. The whole height is divided into stories about five feet high. Each of these stories or galleries go round the building in the heart of the wall, except where the stair interrupts. In the inside of the building there are three ranges of square holes, each range going from bottom to top, which divide the whole structure into three unequal segments. These holes are separated from each other by one or two stones thickness, and are from eight inches to a foot square. I imagine they have been intended for throwing missile weapons from, in case of the enemy getting possession of the court. The galleries are divided from one another by broad thin stones, which form so many floors and roofs. The building on the outside appears to taper considerably till within one third of the whole height, when it goes up perpendicularly, and rather seems to fall without the plumb. The inside wall is plumb. What makes me imagine that this has been the seat of their prince, is that the place next adjacent to it is called Conengsburg, which is the Norwegian term for king's seat." All these buildings he remarks are of dry stone.

THIS structure is evidently of the same general class with that at *Dun Agglefog* in Rosshire [c]; and I regret that my ingenious correspondent has omitted to mention either the name of the structure itself, or that of the island on which it is placed. That a place so exceedingly incommodious, for an habitation as this must evidently have been, should be the residence of any

[c] It seems more like the Dune of Dornadilla described and engraved, vol. V. p. 216. pl. XVIII.



person, far less a king, in a state of society in which the art of building had been carried to such a point of perfection, appears to me extremely improbable; and that a place intended for defence should have holes only on the inside for discharging missile weapons, where danger could hardly ever be apprehended, and none upon the outside where they would have given the enemy much greater annoyance, is so contrary to the common sense of mankind, as would alone be sufficient to invalidate that conjecture, even although the size and form of the holes themselves, so exceedingly ill adapted to that purpose, did not furnish another insuperable argument against that opinion. That these were intended solely or chiefly for watch towers or beacons, on which fires should be lighted to spread the alarm in case of an invasion, seems to be as improbable as any of the other conjectures, although I find it is very universally prevalent; for what could have been the use of erecting such superb and costly structures for that purpose in the north of Scotland, where the tops of high hills afford as conspicuous places without any expence as could have been obtained by all the art of man? And that this was no part of the intention of those who built them is most manifest from the situation usually chosen for these buildings, which for the most part is a hollow or at most the side of a mountain. I never saw one that could have been seen at any considerable distance, save that at Dunrobin in Sutherland, and even that can be seen at a distance only from one side; and I have seen others which could not be seen from above two hundred yards on any side, as is particularly the case with that near Dunbeath in Caithness.

THESE reasons, with others which might be offered, induce me to reject all these opinions with regard to the intention of these structures, and adhere to the one I formerly advanced, viz. that they had been places of worship, according to the rites

of Scandinavia. The holes and all the other appurtenances, for which we can discover no use on any other hypotheses, present no difficulty when viewed in this light, as they may have been necessary for the performance of certain religious rites of which we have no longer any sort of knowledge. The form of the structure, especially if we suppose it was wholly or partially darkened from above, is exceedingly well adapted for impressing the mind with that reverential awe so necessary for giving magical rites their full impression. And these holes by admitting lights artfully placed we can easily conceive might be so managed as to give the most irresistible effect to such supernatural representations as the priest might choose to exhibit; and if we add to this the effect that might be produced by voices or other sounds issuing from those concealed galleries, we may figure to ourselves a *tout ensemble* that might overawe the most daring philosopher in modern times, and sink almost into total annihilation the minds of ignorant Barbarians, who were firmly convinced that these effects were produced by those supernatural beings they were taught to adore. In these circumstances we feel the propriety of the epithet that Ossian bestows upon these very structures, for such I think it reasonable to suppose was what he calls *the horrid circle of Brumo*. What a jest are all the childish fooleries of modern priestcraft, intended to impose upon and overawe the weakened judgement, when compared with these all-powerful incantations of Antient Scandinavia!

You will please to observe, that the description of this tower tallies much more exactly with that at Dornadilla in Caithness, than with either *Dun Agglefgag* or *Dunrobin*; the first having galleries and distant ranges of internal windows, which are wanting in the two last. The two first, it is probable, were royal places of worship, the cathedrals of Pagan times, in which the religious rites were performed by the *Archimagus* himself in

their highest splendor. The others were probably places of distinguished note, yet of an inferior class; and others, more humble still, have probably been allotted for vulgar use, which are now in a great measure buried in ruins.

Excuse the length of this letter, and pardon the conjectures it contains. I give them only as conjectures, which I shall cheerfully renounce as soon as I meet with others that are supported by more rational arguments. I ever am, with the most sincere esteem,

Dear Sir, your most humble servant,

*Monkbell, Aberdeenshire,*  
Sept. 30, 1779.

**J. ANDERSON.**

[ 100 ]

**X. Observations on the vitrified Walls in Scotland,  
by the Hon. Daines Barrington. In a Letter to the  
Secretary.**

Read February 15, 1781.

DEAR SIR,

**I** SEND herewith a drawing of what is supposed to have been a vitrified fort on the S. W. end of the island of Bute, and which still goes by the name of Dunagoyle. I am obliged for this elegant and accurate plan to Sir David Dalrymple, one of the lords of Session, who was so good as to transmit at the same time one of the vitrified stones, of which parts of the wall were composed.

THESE supposed forts, thus built, have lately much engaged the attention of the Scotch Antiquaries, particularly Mr. John Williams (a mineral engineer), who published a pamphlet on the subject in 1777; as also Mr. Freebairn, whose sentiments on the same head are to be found in the minutes of the Society, June 17, 1779. To these I may add a dissertation of Mr. Anderson's in the Vth vol. of our *Archæologia*, p. 255. and a second by the same gentleman immediately preceding the present paper.

ALL these ingenious antiquaries agree in supposing, that these walls were only vitrified, because the natives of N. Britain, at that time, did not understand how to make what we at present call cement; that, in most of the few which remain, the vitrification only takes place on one side; that they are situated upon insulated hills of a very considerable height; and that they were used as places of defence.



WITH regard to the first of these particulars, I should conceive, that if one side of the wall only was heated, and to any height, the matter in fusion would all drop down to the bottom, and therefore could not operate as a cement to fill the interstices of the loose stones.

IN relation to the second circumstance, I have myself been twice in the Highlands of Scotland, and have seen very few hills of any height which were cloathed with wood; the trouble therefore of carrying it up to the top of such a mountain would be considerable; nor do I very well understand how the walls being vitrified on one side only, added much to the strength of the post against an enemy.

MR. WILLIAMS, indeed, after having observed the third particular of their being intended as fortresses, was sensible that water was requisite, if the place was to be held for any time; he therefore informs us, that there are dried wells within these forts. In answer to which I would observe, that shelter from the weather is also necessary (during a siege) upon the top of a bleak Scotch hill, whilst whisky (or a succedaneum for it) would be often in greater request than the bare element of water.

As I therefore cannot entirely subscribe to the opinions of the before mentioned antiquaries, though supported with much ingenuity, I shall without difficulty state my own hypothesis, be it never so erroneous; for, in many matters of antiquity, he who guesses best does best; nor is demonstration often to be produced on any side.

As I have travelled the most mountainous circuit of Wales for more than twenty-one years, I have frequently seen stone-walls like those in the present drawing, and upon inclosures of a much smaller compass. There is a long tract of such in the western part of Merionethshire, very near to the sea [a].

[a] It is called Duffryn, which signifies in Welsh *The Vale*.

WHEN I first observed these small inclosures made with thick walls of loose stones, I could not comprehend how it could be worth while to make so formidable a fence to such a small compass of ground. Upon examining however the adjacent country, I found it almost entirely covered with such loose stones, and that therefore the smaller the piece of ground to be cleared the less expensive the removal. For the same reason, such dry walls are often of a great thickness, and sometimes the corners of the inclosure are filled with stones to a great width, this being the only possible means of procuring pasture.

THUS likewise, and for the same reasons, this practice is very common in the Highlands of Scotland; and lord Bredalbane (at his most capital place of Taymouth) hath for many years employed a labourer solely in blasting [b] large pieces of stone dispersed over some of his fields, which then became manageable, and may be used in the stone enclosures of the same piece of ground.

BUT it will be urged, that the stones of the fences in question are vitrified; which observation, indeed, is unanswerable, if the expence of vitrification was incurred merely to make these supposed fortresses more strong. But may not this vitrification have been occasioned, either by vulcanoes, or what are called *bloomeries*? The same effect may be produced likewise on dry walls of stone, by lightning passing along them. The loose stones in either case would not be rejected, because they were glassy, and would be piled up in the fences of the inclosure; as the great point upon these occasions is to clear the ground, and remove the incumbrance stones to the smallest distance.

ONE of the advocates for the designed and not fortuitous vitrification, says, that the pieces he had procured did not resemble what is called *lava*; but every vulcano is not necessarily an Etna,

[b] He is therefore called his lordship's blaster.

or

or a Vesuvius; and, consequently, the matter disgorged from the crater, must perpetually vary, both in substance and form. Vitrified masses larger or smaller, will likewise be produced by the same means.

It may be contended indeed, that pasture thus procured, by clearing the ground, would be more convenient at the bottom or sides, than on the top of the hill. But to this I answer, that in rocky countries you must get what pittance you can of soil, and often it will happen, that the only detached and removable stones are on the summit.

When such inclosures have been made, they become very convenient for putting cattle into; and hence perhaps some of the wells which Mr. Williams hath mentioned.

I SHALL conclude these observations, by suggesting, that if vitrification answered the purpose of cement, it is very extraordinary, that the antient inhabitants of Scotland did not apply it to the houses or huts in which they constantly lived, but reserved this expensive and troublesome process merely for a fortification, which might not perhaps be used in a century against an enemy.

Believe me, dear Sir,

Your most faithful servant,

DAINES BARRINGTON.

P. S. I hope the Society will do me the honour to accept of the drawing and specimen of vitrification.

*XI. Observations by Sir Henry Englefield, Bart. on the antient Buildings at York, &c. In a Letter to the President.*

Read January 27, 1780.

SIR,

**T**HERE is no task more painful than to contradict the assertions of learned and ingenious men; yet, as the detection of error is at least as necessary to the advancement of knowledge as the investigation of truth, I hope I shall stand excused to this Society for the reasons which I now mean to offer for my dissent from the learned Drake, with regard to the Roman antiquities supposed by him to be now existing at York. The first of which I mean to speak is the tower and wall of the Mint Yard, spoken of in high terms by Dr. Lister, and engraven in the Eboracum. This I carefully viewed, but could not see the least difference either in material or construction from the rest of the city walls; except the courses of Roman brick mentioned to bond the work in two places. But I am far from looking on such courses as a certain mark of Roman work, the ingenious Mr. Essex having fully proved brick to have been made by our Saxon ancestors, and I myself having seen four courses of thin and fine brick ranging round the keep of Chepstow castle about twelve feet above ground; nobody will, I believe, attempt to ascribe the last mentioned building to the Roman times.

BUT



BUT the arch in Micklegate Bar is what I principally mean to treat of; the description of it being more minute, and the building itself of much more consequence. It is indeed, as Mr. Drake says, a true segment of a circle, and the material is the grit-stone; but Mr. Drake, like many men of real genius, warmed with his subject, and willing to give it every advantage in his power, seems totally to have forgotten that the Saxon and Norman buildings are all raised on segments of circles, and many of them in this country entirely built of grit. Kirkstall abbey may serve as proof (if proof was necessary) of both these assertions. But, besides this, Bootham Bar has an arch almost exactly similar, and built of the same material; and I think that one more of the gates of York is also round-arched; yet nobody has thought of referring either of these to Roman times. The superstructure of both Micklegate and Bootham Bar is of limestone, being evidently of much later date; perhaps the time, when the grit ceased to be used in buildings, might afford matter of curious investigation.

A FURTHER reason, and which appears to me of very great weight, indeed, against the Roman antiquity of Micklegate Bar, is, that it is evidently at this time quite out of ground, the basement being a foot high, which I believe there is not an instance of in any building to be referred with certainty to the Romans. The horrid waste and desolation which ensued on the termination of their empire over us, the repeated fires of the Saxons and Danes, have raised the soil of our cities to an almost incredible height. The arch at Lincoln is buried almost to its impost; the bath in the Precentor's house is far below the bottom of his cellar, though on the very brow of a steep hill down which the ruins must have rolled in some measure. The arches at Canterbury are nearly in the same state; and indeed

106 *Sir H. ENGLEFIELD on the antient Buildings at York.*

the Roman inscriptions found at York are uniformly discovered in digging cellars and foundations. How then is it possible for this arch alone to have emerged from the mass of ruin that covers the other remains of antient Rome in our island, and to stand alone on the level of our present streets?

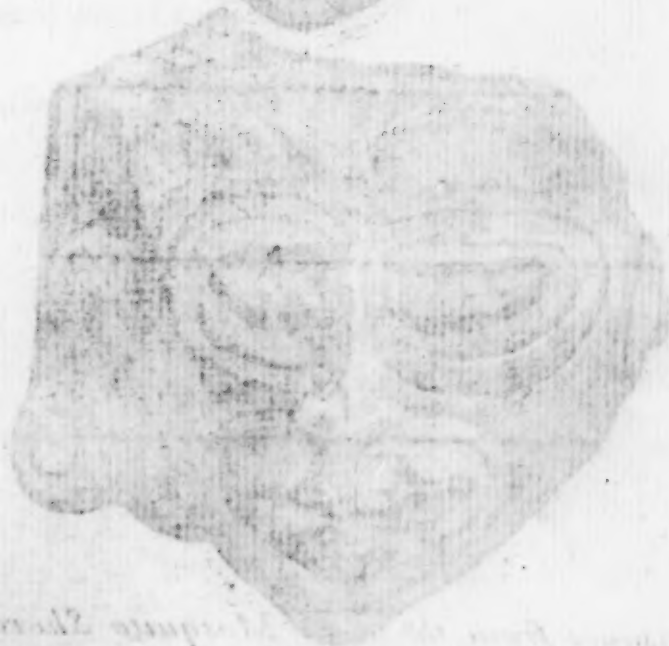
I MUST not omit the very respectable authority of lord Burlington, adduced by Mr. Drake in support of the antiquity of the Bar. Nobody can have an higher opinion of his lordship's skill in architecture than myself, but perhaps the study of Greek and Roman antiquity had rather been an hindrance to his forming a proper judgement of the different styles of architecture in the lower ages, than any help to him in that respect. And the great name of Inigo Jones need but be mentioned to bring to the mind of this Society, how deplorably it is possible for the most eminent genius to err when endeavouring to wrest facts in support of a preconceived system.

I am, Sir,

Your obedient humble servant,

HENRY C. ENGLEFIELD.

1874



Portrait of a man, 1874



*Masques from the Mosquito Shore.*





These are the faces of the  
people of the island of  
Tahiti.



*Masques from the Mosquito Shore.*



XII. *An account of certain earthen Masks from the Musquito Shore. By Charles Rogers, Esq. In a Letter to the President.*

Read April 6, 1780.

SIR,

**B**Y the favor of Daniel Braithwaite, Esq. a gentleman who lives in the city, I lay before you and your Society several pieces of Terra-cotta brought from the Musquito shore about the year 1775 [a].

THEY were sent by a very intelligent gentleman who had long resided in that country, and gave the following account of them.

It is not doubted that the natives had formerly many arts among them which have been lost several centuries, and are known to have ever existed by tradition only, and by a few specimens still scattered in the internal, and at present uncultivated parts of that district.

As this gentleman had frequent opportunities of travelling over the solitary regions which lie between the Spanish settlements and ours, and as he could speak the language of the natives, he became better acquainted with their ideas of the ancient splendor of their country than other Europeans, whose

[a] See plate XI.  
P 2

connexions

connexions with these people are confined to the sea-coast only, could possibly acquire.

HE had the curiosity, under their directions, to take a journey into the interior parts of the country, of seventy or eighty miles; and, guided by them, he found, on digging, many curious pieces of antiquity, but most of them too massive to be removed; and, amongst the rest, a prodigious quantity of such masques as are here exhibited; which, his Indian conductors told him, were the likenesses of chiefs, or other eminent persons who had been formerly buried there; and that it was sometimes their custom to mix gold dust with the clay of these portraits, which were, in general, heads or busts only, and often entire figures. These were placed at the heads of the deceased, whose bodies were inclosed in a fine earth of red porcelain elegantly ornamented. This was in the refined and flourishing æra of their country; but now these ill-fated and unpolished Indians consign their dead to a common grave.

ONE thing is observable, that the present race of natives have not the least knowledge of the art of making these masques; nor of forming a composition, which is likewise found with them, or near the places where they were discovered, and which is so hard that no tool, how finely soever tempered, will make the least impression on it.

To the above account may be added, that one of these pieces is an entire foot, which, if it were Roman, would be called a votive foot; another is a head with swollen eyes and nose, and a fore crown, which would likewise be thought votives of a person recovered of these disorders; and a third represents two children who probably died young.

MANY of these terra-cottas have their backs concaved in a cylindrical form, by which we might imagine they were parts of sepulchral urns, if we had any authority for such a supposition.



*Mr. ROGERS on the Musquito Busts.*

109

SEVERAL of the masques are evidently of faces tattooed; a practice long disused on this shore.

It is remarkable that some of these greatly resemble those published by Ficoroni, in his large collection of the scenic masques of the ancient Romans; many of which masques are also in terra-cotta.

I am, Sir,

Your most obedient and

most humble servant,

Laurence Pountney Lane,  
March 6, 1780.

CHARLES ROGERS.

XIII. *An account of some Druidical Remains on Stanton and Hartle Moor in the Peak, Derbyshire. By Hayman Rooke, Esq.*

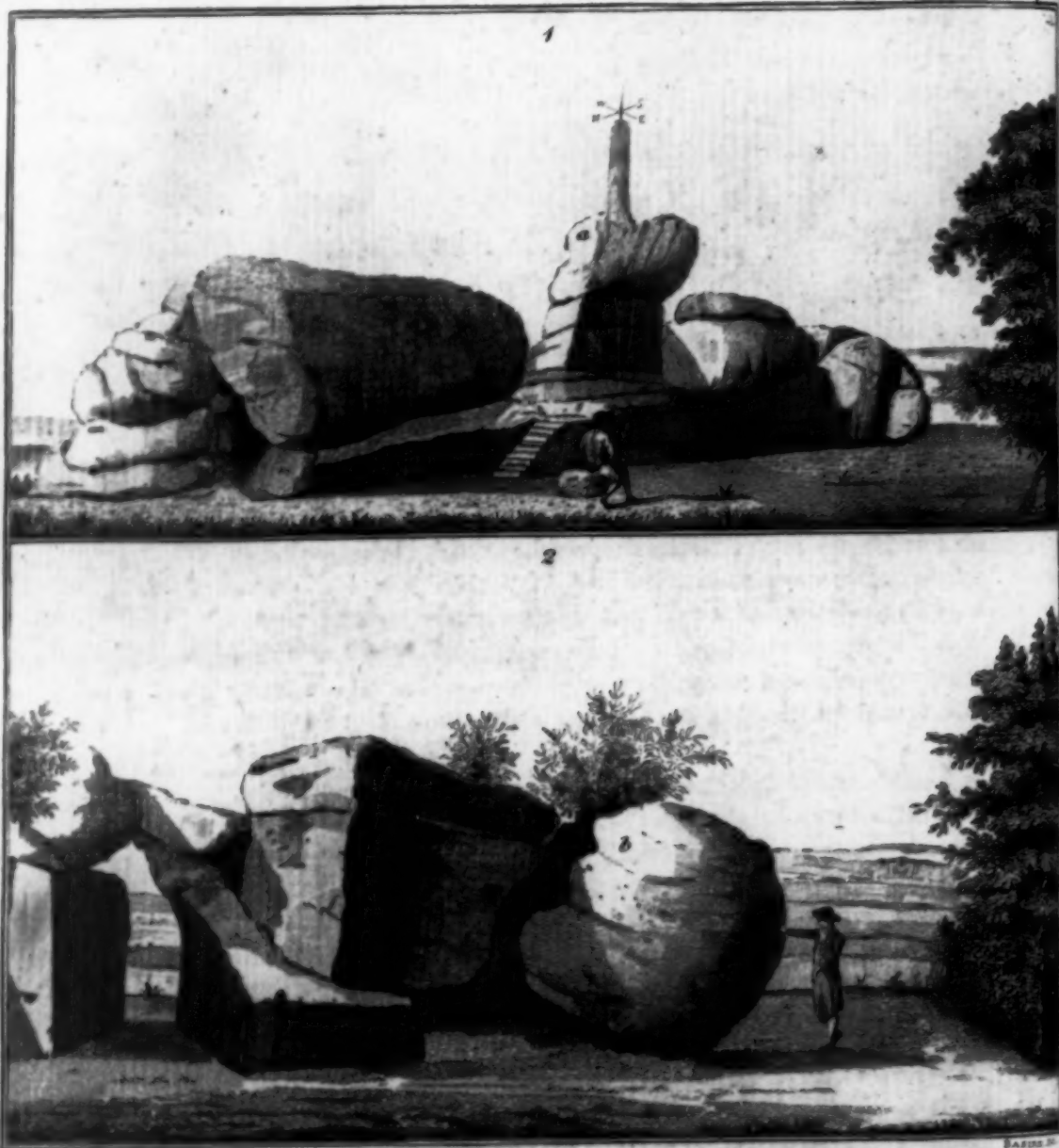
Read April 6, 1780.

STANTON Moor is twenty-four miles from Derby, twelve from Chesterfield, and four from Bakewell, a wild uncultivated waste, very high land, rocky, and produces a coarse kind of sedgey grass; it is about two miles in length from north to south, and near one and a half in breadth from east to west; bounded on the north by Rowsley, on the east by Darleydale, a beautiful valley, finely diversified with woods, villages, and rich pasture, and where the Derwent forms a meandering course from north to south; it is bounded on the west by Hartle Liberty or Hartle Moor.

AT the south end of Stanton Moor, close to the village of Birchover, is a very singular mass of large rocks, called *Roulter*, *Rowter*, or *Roo-Tor*; whence Rowter means a moving rock, since in the provincial dialect they will say a thing *roos* backward and forward: now this *Roo* is no other than *Rou*, it being the usual pronunciation of the country, the inhabitants generally omitting the final *l* and *ll*; wall, they pronounce *wo*; hall, *bo*; fall, *fo*, &c. These rocks stand on the top of a hill, commanding an extensive view over the moor, and seem to have been a place much frequented by the Druids.

PLATE



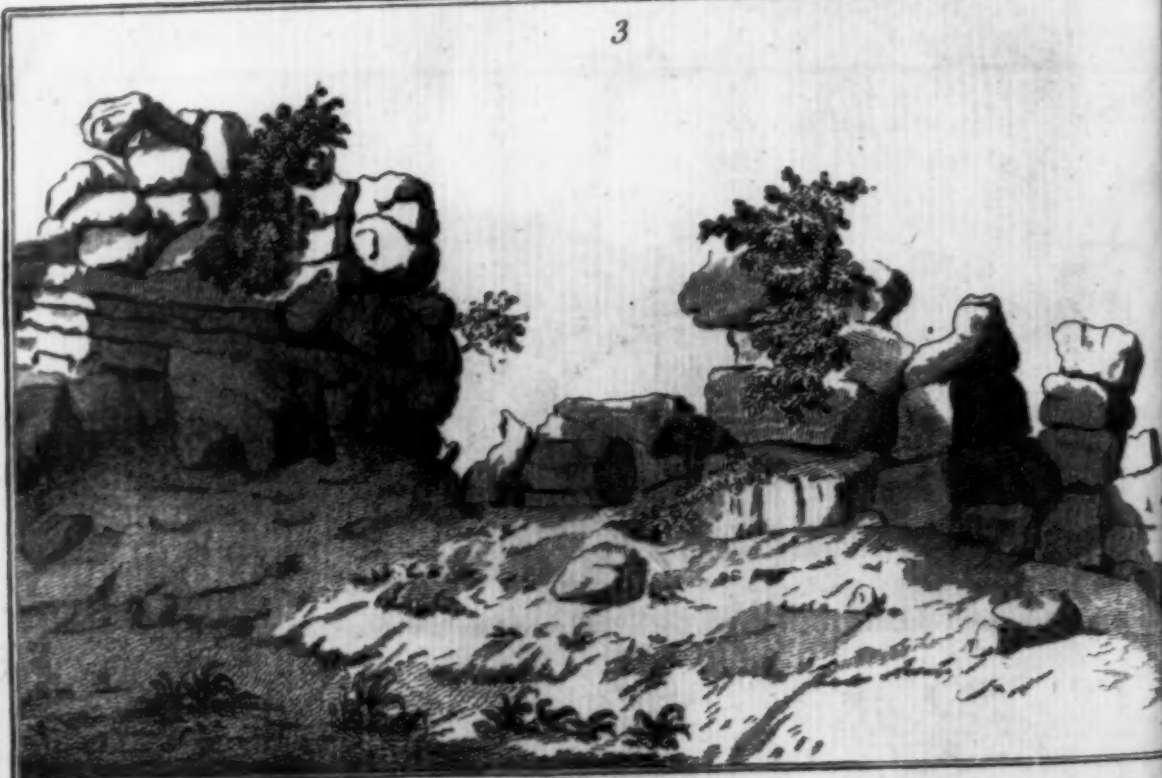


N<sup>o</sup>. 1. South View of Rowley Rocks. N<sup>o</sup>. 2. S. W. View.





3



4



N<sup>o</sup> 3 N.W. View of Rowtor Rocks. N<sup>o</sup> 4 Bradley Rocks.



stone nine feet by seven feet eleven inches; the diameter of the basin at the top two feet seven inches by one foot eleven inches; the other four are on the top of Carcliff. N° 2. stands close to a precipice, too hazardous to measure. The stone N° 3. is seven feet in length, diameter of the basin two feet. The stone N° 4. is five feet, the basin two feet six inches. The stone N° 5. is nine feet four inches, the largest basin three feet diameter, the other two feet. These basins appear to have been the work of art, and have in many places the marks of the tool. On the east and west side of Stanton Moor are several large rocks and stones, none of which have basins, nor are they to be found but on rocks that stand on hills, and in the neighbourhood of Druidical remains.

PLATE XIV. N° 6. is a ground plan and view of a hermitage in a cave at the foot of Carcliff rocks. At the east end of the cave is a crucifix, the figure three feet high, cut out of the solid rock in high relief, the sculpture not bad; on the top of the cross there appears to have been something like letters, but now so defaced by time as not to be made out; on the left hand of the crucifix is a niche, as if intended for a statue. Facing the entrance are the remains of seats hewed out of the rock. The length of the cave from east to west is eleven feet; depth to the seats marked 1 nine feet, from the seats to the corner five feet. This little recess seems to have been the bed place of the hermit, and has been separated from the seats by rails, as appears from the holes marked 2. Height of the cave seven feet.

PLATE XV. N° 7. is a view of a Druid temple of nine stones on Stanton Moor, about half a mile north of Rowter. It is called by the country people the *Nine Ladies*. At thirty-four yards west of the temple is a single stone, which they have named the *King*. The diameter of the circle eleven yards; the stones are about two feet six inches high; there appears to have been one in the centre. Near it are several cairns; one had been opened a few



7

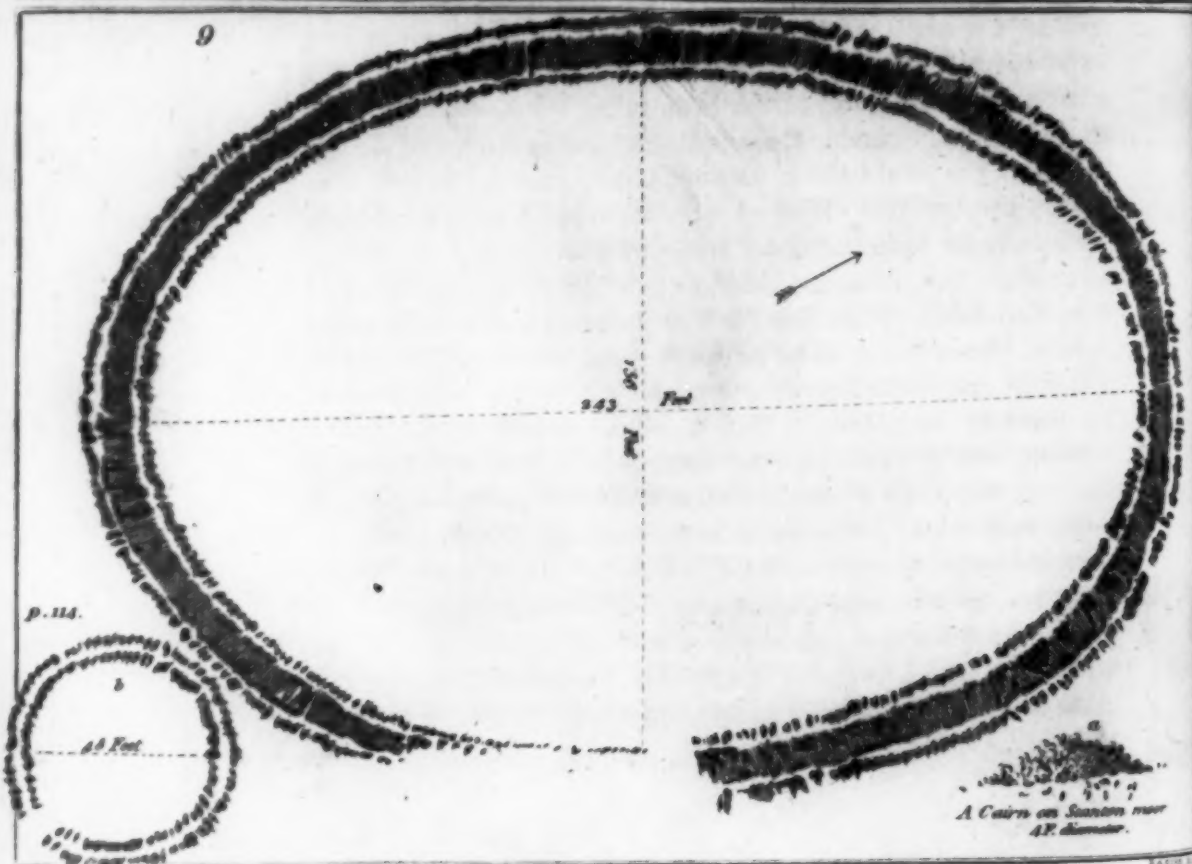


8



BASIRE SC.

*Druidical circles of Stones, on Stanton Moor.*



few years ago, and much rummaged: bones were found with a large blue glass bead with orifices not larger than the tip of a tobacco-pipe. One of these cairns 40 feet in diameter is engraved in Plate XVII. a.

Plate XV. N° 8. is a view of the remains of another Druid temple on Hartle Moor, about half a mile west of the Nine Ladies. It consists at present only of six stones; but the field they stand in goes by the name of the *Nine Stone Close*, and if we may judge by the eye, there were formerly that number. The height of the tallest stone is seventeen feet; at seventy-five yards south stand two stones somewhat smaller.

Plate XVI. N° 9. is a plan drawn by a scale of 40 feet to an inch of a circular British work called *Castle Ring*, about two hundred yards north from the above mentioned temple, and a quarter of a mile west of the little valley which separates Hartle Moor from Stanton Moor. It has a deep ditch and double vallum; the entrance is very visible on the south east side, where part of the vallum has been levelled by the plough. The diameter from north-east to south-west is one hundred and forty-three feet, from south-east to north-west one hundred and sixty-five feet. As no coins or Roman utensils have been found near it, there seems to be sufficient grounds to suppose it to be a British and not a Roman encampment. It has been thought by some to have been a Danish work; certain it is that the Danes secured themselves for some time in Derby, after they had driven out the Saxons; but as this place is a great distance from that town, from its vicinity to many Druidical remains I should rather suppose it to be British.

N° 10. is a view of *Cats Stones*. At the east side of Stanton Moor are three very remarkable stones; they stand at the edge of a declivity looking over Darleydale, and about a quarter of a mile from each other in a north and south direction. They have

at a distance much the appearance of towers: that to the south is called *Cats Stone*, and has a road leading to it cut through a surface of loose stones and rock: this was evidently intended as an approach to the stone, where it ends, and meets a precipice.

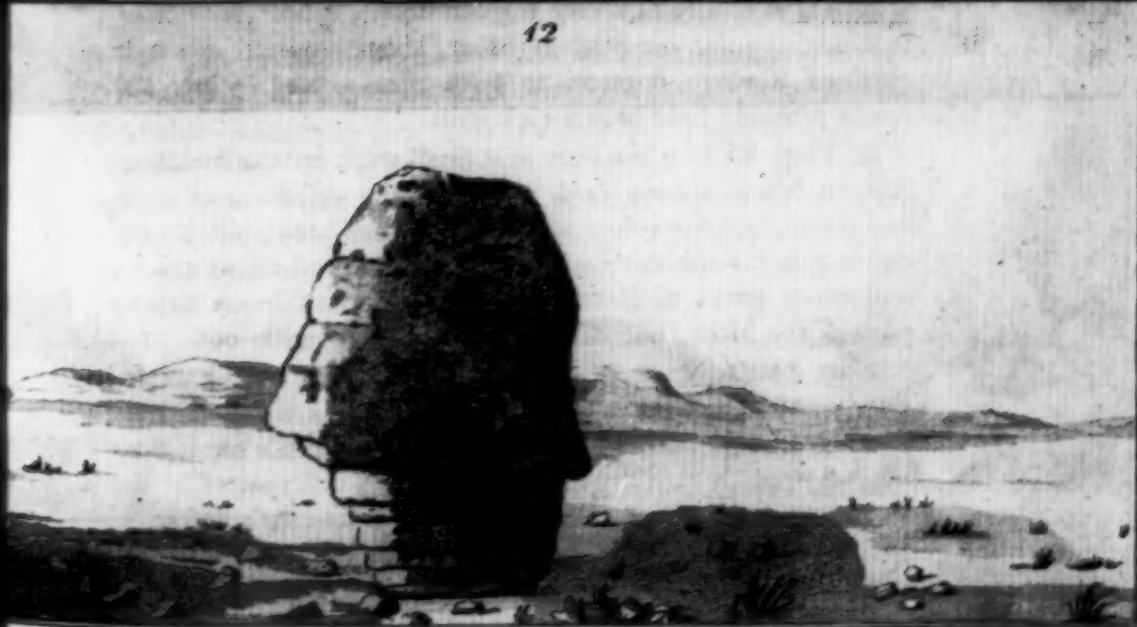
Plate XVII. N° 11. is a view of a stone called *Gorse Stone*, with Cat Stone at a distance marked 1. This name is undoubtedly derived from a British word *gorfed dau* (setting aloft). Doctor Borlace says, in his *Antiquities of Cornwall*, that the Druids had places of elevation "called *gorfed dau*; in some " places they were made of earth, and sometimes they were " upon high rocks, from whence they used to pronounce their " decrees." Now no place seems to be better calculated for that purpose, or for their inaugurations, than these stones; the other, which is the largest of the three, is called *Heart Stone*, and measures eighty-three feet in circumference.

N° 12. is a stone of a very singular shape, called *Andle Stone*. It stands by itself on Stanton Moor, about a quarter of a mile north of Rowter; it seems to have been formed by art, and might probably have been a rock idol.

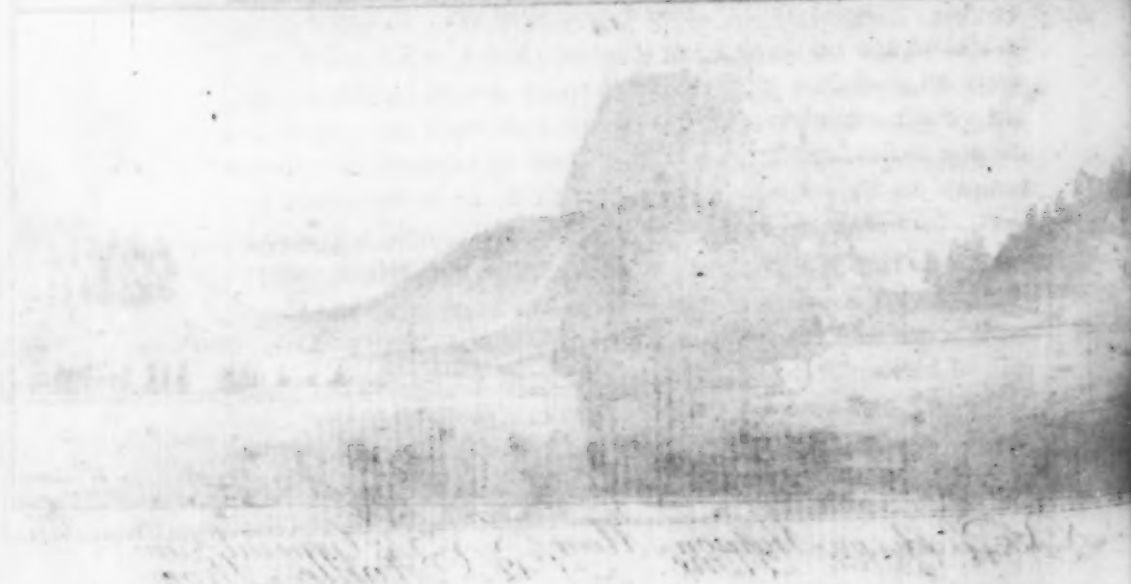
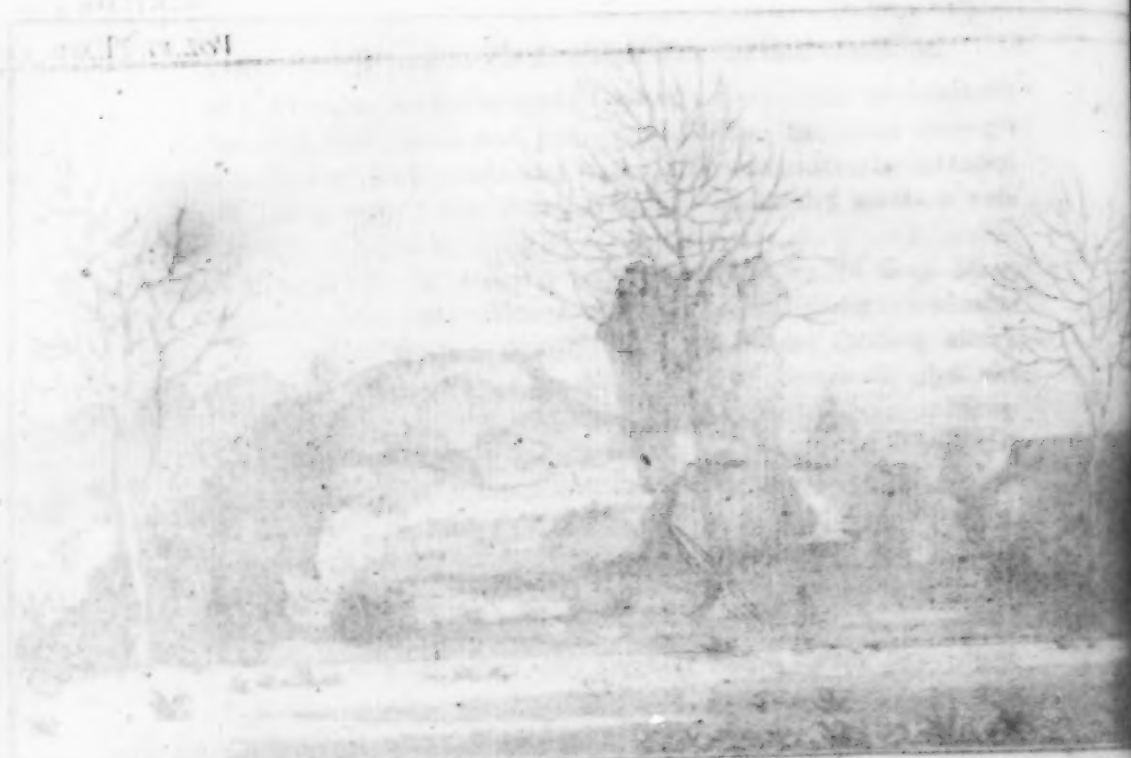
In Plate XVI. b is a plan of a small work on the middle of Stanton Moor, sixteen yards diameter; the vallum is of earth and stones, but there does not appear to have been a ditch: the entrance is towards the south. There are several cairns near it, and many traces of British works are perceivable on various parts of the Moor, but nothing perfect can be made out.

Plate XVIII. N° 13. is a view of some rocks in a small enclosure at the north-west end of the Moor near the village of Stanton. The rock marked (1) is very remarkable; the top is sloping, on which a very large stone marked (2) is supported by the two stones (3) and (4). From the form of these two, (which if they were turned on their edges might support the upper stone in





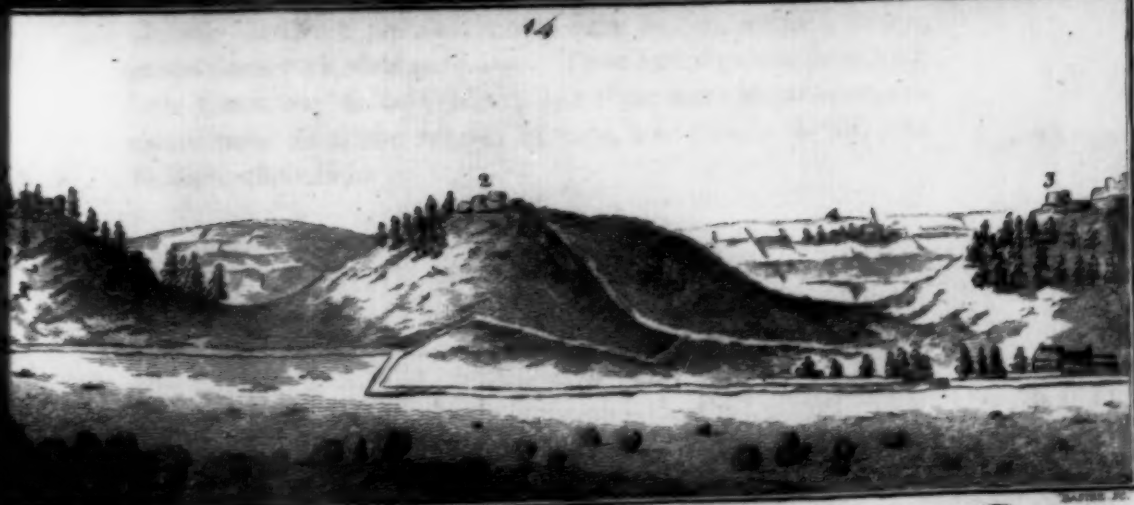
N<sup>o</sup> 11. Gorse Stone. N<sup>o</sup> 12. Andle Stone.



13



14



N<sup>o</sup> 13, Rocks on Stanton Moor. N<sup>o</sup> 14, General View.





in the nature of a cromlech, whence one may reasonably suppose the whole to have been a cromlech, by some means now thrown down), it certainly must have been the work of art. The Druids undoubtedly had a power (unknown to us) of moving very large stones, as is now visible in many of their stupendous remains in England. The ground these rocks stand in belonged to the family of the Caltons, whose ancestor about one hundred and fifty years ago had a Latin inscription, cut in Roman capitals, on the two rocks N° 5 and 6, which is as follows: on N° 5, *Res rustica quæ sine dubitatione proxime et quasi consanguinea sapientiæ est, tam discipulis eget quam magistris.* On the stone N° 6, *Nihil est homini libero dignius, et quod mihi ad sapientis vitam proxime videtur accedere.*

N° 14. is a north-east view of the three hills at the south end of Stanton Moor, on the top of which are the Druidical remains. N° 1. Rowter rocks; N° 2. Bradley rocks; N° 3. Carcliff rocks; N° 4. the village of Elton.

By the number of Druidical remains on Stanton Moor, we may reasonably suppose this place to have been inhabited by the Druids. Here are temples, caves, rock basins, rocking stones, gorsed daus, rock idols and cairns. Their sacred groves have long since given way to cultivation; but their more durable monuments have stood the ravages of time, and remain as helps to illustrate their history.

XIV. *Observations on the word Esnecca, in a Letter to Thomas Aſle, Eſq. F.S.A. By John Topham, Eſq. F. A. and R. S.*

Read April 13, 1780.

DEAR SIR,

I AM much obliged to you for the perusal of the inclosed beautiful and curious charter, which afforded me much pleasure and information; it containing the grant of an office, "*ministerium meum de esnecca mea*," which had never before occurred to my observation. It is in these words:

"H. rex Angl' et dux Norm' et Aquitan' et comes And'.  
 " Archiepis, epis, abbatib', comitib', baronib', justic', vic' et  
 " omnibus fidelib' suis Franc' et Angl' totius Anglie et Norm',  
 " salutem. Sciatis me reddidisse et concessisse Willo et Nicho-  
 " lao filiis Rogeri generi Alberti et heredibus Bonefacii et Azo-  
 " nis et Roberti et Radulfi fratrum ipsorum *ministerium meum de*  
 " *esnecca mea cum liberatione que pertinet*; et totam terram Ro-  
 " geri generi Alberti; et feoda omnia que ipse Rogerus tenuit  
 " in capite de rege H. avo meo et de quocunque tenuisset die  
 " qua fuit vivus et mortuus. Quare volo et precipio quod bene  
 " et in pace et libere teneant, cum soca et saca et tol et team  
 " et infangeneteof et cum omnibus illis quietanciis et consuet'  
 " et libertat' suis cum quibus Rogerus gener Alberti melius et  
 " quietius

" quietius tenuit tempore regis H. avi mei, in bosco et plano,  
 " in burgo et extra, in feodis et firmis feodalibus, in aqua et  
 " extra, in pratis et pascuis, in viis et semitis et in omnibus lo-  
 " cis. Test. T. Cant' archiepo. H. Wint' epo, N. Eliensi, epo,  
 " Ph. Baioc' epo, A. Luxon' epo, H. Abrinc' epo, T. Cancell.  
 " Regin' com' cornub', H. de Essex, constab', Ric' de Hum'  
 " constab', Warin' fil' Ger', camerario, Mañ. Biset dap' Rob'  
 " de Dunestr' Ric' de Canvilla, Goc' de Baillolio, apud Oxine-  
 " fordam."

THIS charter is without date, it having been made before the time when the insertion of dates in grants was generally used; but as remote and obsolete expressions are frequently the more readily explained when the time of their being used is known, I, in the first place, endeavoured to fix the date as nearly as I could by the time in which the witnesses to the deed lived. This I was enabled to do with sufficient exactness from the three first witnesses only, viz. Thomas Becket who was archbishop of Canterbury from the year 1162 to 1170. Henry de Blois bishop of Winton from 1129 to 1171. And Nigellus bishop of Ely from 1133 to 1169. These dates therefore fix the time of making the charter to be between A. D. 1162 and 1169, or the 8th and 15th years of the reign of king Henry the Second.

THE office here granted by the king, "*ministerium meum de esnecca mea*," I could not so readily ascertain. I consulted some of our best Glossaries, Latin, Saxon and French, without receiving any information upon the subject of my enquiry. This drove me to have recourse to our ancient historians and early records; and these furnished me with the intelligence I sought for. The following authorities will not leave any doubt concerning the duty of the office in question.

THE ancient Dialogue of the Exchequer written by Gervase of Tilbury in the reign of king Henry II. the time of our grant, has this passage.

Lib. I. cap. vi. "Item sunt ad scaccarium liberationes constitutae quae statutis terminis, sine brevi regis, solvuntur; qualis est liberatio naucleri, custodis, scilicet, navis regiae, quam *esneccam* dicimus, qui XII percipit quaque die, de qua et consimilibus talleae fiunt a camerariis, quia de hiis brevia non habent."

IN support and illustration of this passage the following proofs are adduced by the industrious Mr. Madox from the records of the Exchequer.

GREAT Roll of the Pipe 5 Hen. II. Rot. 6. a. The sheriff of Devonshire was allowed in his accounts "*in liberatione sneccae VII li. in transfretatione ipsius.*"

Ibidem, Rot. 7. a. The sheriff of Hants was allowed in liberatione hominum *de Esnecca*, c et II s. et VII d.

Ibidem 12 Hen. II. Rot. 8. b. The receivers of the town of Southampton were allowed in *liberatione Esnecca* quando rex transfretavit in quadagesima VII li. et x s. Et in passagio regis Scotiae VII li. et x s. per breve regis. Et in passagio domini Gaufridi filii regis *Esnecca* et duabus aliis navibus x li.

Great Roll 22 Hen. II. Rot. 13. b. tit' Hanton'. The receivers of the same town of Southampton were allowed in *liberatione Esneccae* quando filia regis transfretavit itura in Siciliam VII li. et x s. per breve regis. Et in liberatione septem navium quae cum ea transfretaverunt x li. et XII s.

Great Roll 31 Hen. II. Rot. 14. b. tit' Hants. The receivers were allowed in *liberatione Esneccae* quando dux Saxoniae et regina transfretaverunt VII li. x s. per breve Ranulphi de Glanvilla.

FROM these several proofs we may therefore conclude, that the office granted by this charter was to be master or keeper of the



the king's own ship or vessel, with the livery and wages thereunto appertaining.

THE term *Esnecca* did not include ships of every kind, but was confined to a particular species of ship or vessel, and evidently here meant only those appropriated for the king's own use; probably in the nature of the royal yachts now in use. The payment of the expences of these vessels being expressly distinguished from and larger than those of the common ships.

ALTHOUGH the word *Esnecca* is here used as a Latin word, yet I am inclined to think it was introduced to us from the Norman French; some instances occurring in ancient French manuscripts of a nearly similar word being used in the same sense as the present.

IN a MS. of Philippus Mouskes cited by Dufresne in his Glossary sub voce *Naca*, is this passage.

Prirent Galies et *Esnekes* [a].

Bien batailles a breteskes.

Et gens armees feleneskes.

Qu'il orent tous es lius alvekes;

And again the same MS.

Galies et Bargas et Nes

*Esneques* et Dromons fiers,

Roges et Buffes et Vissiers &c.

Dufresne in his Glossary has the Latin words *Naca*, *Isnechia* vel *Hilnachia*, as a species of small ships or vessels. And Matthew Paris has the word *Nacellas* in the same sense. Edit. 1684, p. 689, "plures *Nacellas*, *Cymbas*, scilicet, aut *Naviculas*."

THE Saxon Chronicle anno 1052 has the word *Snecca*, as a species of ship. The Teutonic has the words *Snack*, *Sneck*,

[a] *Esneke* ou *Esnecke*; sorte de vaisseau de charge Lacombe. Dict. du vieux langage François. By this it should seem a transport.

120 *Mr. TOPHAM's observations on the term Esnecca;*

and *Snicke* in the same sense. And Olaus Wormius in the ancient Danish language, has the word *Snekia* as a swift sailing vessel.

Thus, Sir, I have endeavoured to point out the nature of the office here granted by the king; and also the derivation of the word in which it is conveyed by a comparison with different languages.

THE deed itself I cannot but deem to be a great curiosity, as it contains perhaps the only instance now extant of the precise grant of an office which once existed in this country, in terms now obsolete and entirely unnoticed by any modern writers or historians.

I am, dear Sir,

Your most faithful and obedient servant,

Gray's Inn,  
April 12, 1780.

JOHN TOPHAM

XV. *Observations*

**XV. Observations on the Roman Earthen Ware taken  
from the Pan-Pudding Rock, by Edward Jacob,  
Esq. F. S. A.**

Read April 20, 1780.

GENTLEMEN,

**R**ELYING by our constitution upon the freedom of discussing subjects of antiquity with decency, and on the candour of Governor Pownall, I beg leave to offer some remarks upon his memoir on the Roman Earthen Ware, printed in the fifth volume of the *Archaeologia*, p. 282.

It should seem that Mr. Pownall hath been misled into the notion of two different places being *one and the same*, by his brother's calling that where the earthen ware is *only* taken, by the name of Pudding-Pan-Sand or Rock. But the Pudding-Pan Rock (or as our people call it the Pan-Pudding Rock), and the Pan-Sand are distant from each other above three miles north east and by east. The Pan-Sand is close to and forms the north side of the Queen's Channel, consists intirely of sand, becomes dry for some part of every tide, and is *never* dredged upon by our fishermen. On the contrary the Pan-Pudding Rock is *never* dry. It is conjectured to be in length near half a mile, and in width about thirty perches; its surface is covered

VOL. VI.

R

with

with loose stones of different magnitudes, every dredge net that was cast bringing up a large quantity of them. Its length runs almost east and west, and it lays right in the passage from the Narrows or the Woolpack to the Buoy of the Spaniards, and about six miles south east from the Reculvers, is well known to all our fishermen (as it often affords plenty of oysters) from its having about three or four feet water less upon it than the other parts thereabouts, excepting only one other rock called Hick-Mays at a small distance off that bears west by north from it.

WHEN the discovery of this curious and not inelegant ware was first made is uncertain, but I have in my possession some pieces which were dredged up above sixty years ago, and they continue to be acquired in small numbers to this day; for though I have been attentive to procure them, yet in the course of above forty years I have, not to my recollection seen above sixty of them. The commissioner therefore was exceedingly successful in taking three intire pans besides fragments in so short a trial, whereas our fisherman hath for above these thirty years dredged upon and round this rock, and yet never procured more than one intire pan, though many fragments of them. He farther informs me that during the greatest part of last winter the fishing vessels of this town *only*, to the number of twelve or more, dredged for three days in every week upon and about the rock, and yet I cannot learn that above five or six of the pans have been brought hither.

AFTER reading Mr. Pownall's memoirs I determined to take a trip to the rock, and in the month of July last on a fine day, went accompanied with the Rev. Mr. Thomas, late a member of the Society. No difficulty occurred in finding it, and we continued trying with the dredge-net for near three hours over and round about it, yet were we so unlucky as not to obtain even a single fragment of the pans; thus our disappointment



pointment seems to confirm the commissioner's fisherman's observation, that the pans were chiefly procured after stormy weather.

FROM our fruitless tryal (by which I conjecture that the pans are confined to a small space of the rock), and the great variety of the names of the potters impressed on the pans as given below, I am induced to think that the idea of a wreck is more consistent than that which Mr. Pownall hath so ingeniously offered as a solution of the cause of these pans being there deposited. Indeed I am apt to conjecture, that if he had had an opportunity of examining a greater variety of them, he would have saved himself the trouble of drawing up his curious investigation, as, setting aside the mistake of the place, it seems founded chiefly upon his having seen the name of one potter only impressed on them, namely Atillianus, and a large piece of cemented brick-work. Now whether the cause of these curious remains of the Roman pottery discovered there was by a Roman vessel freighted with these wares and cast away upon this rock, as hath been the general opinion hereabout; or that there hath been erected upon this spot a storehouse or manufactory of this ware, and that Atillianus was director of the college of potters, and had his works there, is readily submitted with the greatest deference to the consideration of the society,

By their devoted humble servant,

*Faversham, Dec. 8, 1779;*

EDWARD JACOB.

THE names impressed on those pateræ in my possession, which amount to twenty five, being all of the red earth and various shapes are,

R 2

ALBVCINI.

ALBVCINI.	CARATIN.	MATERNI.
ATILIANI.	CARETI.	NAMILIAN.
ATRVCI.	DECMI.	PATT:O.
CADANVS.	MARN:C.	SATVRNINI.
CINTVS.	MATERNNIM [a].	SEVERIANI.

It is worthy observation that those paterae which have rims to them, whether ornamented with a foliage or without, have no name impressed on them.

P. S. The Rev. Mr. Thomas since our visit to the rock has collected amongst the fishermen at Whitstaple a dozen of these vessels, and a curious thin [b] brown black one in the form of a sugar basin, having two handles and a foot to it, the diameter is about five inches, and its external circumference ornamented with a pretty foliage, which last piece since Mr. Thomas's death has come to my hands.

[a] This name is in a smaller type than the following with only one N.

[b] Or rather made of red earth covered with a black glazing.

XVI. *Observations on the Roman Earthen Ware found in the Sea on the Kentish Coast, between Whitstable and Reculver on the borders of the Isle of Thanet, by George Keate, Esq. F. R. and A. S. In a Letter to Sir Joseph Banks, Bart.*

Read April 20, 1780.

FROM an attentive perusal of a paper relating to the earthen ware abovementioned, and which was published in the last volume of the *Archæologia* [a], it appears to have been the idea of the gentleman who delivered in that paper to our Society, that there had been a Roman pottery established near about the spot where so many earthen vessels, and fragments of vessels, are now from time to time dragged up by the fishermen of Whitstable, on a place which they have, in consequence of their discoveries, called the Pudding-Pan Sand, or Rock, situate, as I have always understood, between two and three miles from the shore.

THE common notion of the people in that neighbourhood, is, that many years ago a ship freighted with this pottery was wrecked on these sands, which so much obstruct the navigation of the Kentish Coast, and on which in succeeding generations so many unfortunate vessels have experienced the same cala-

[a] Vol. V. p. 282.

mity.

mity. This is the plain natural account of illiterate and uninformed men, who know of no particular period of time to which they may refer this event; and nineteen times out of twenty the natural conceptions of mankind border the nearest upon truth. Refinements lead us but too commonly wide of the mark we aim at.

THE pieces which have occasionally been dragged up by the fishermen's nets, bear many of them the unequivocal marks of having been long buried in the deep. The attachment of shell fish confirms the opinion, and there are but few pieces that have not their bottom-rim, or foot, broken by the continual fluctuation of the waters. They are indisputably of that species of earthen ware made use of in the time of the Romans; and the variety of names impressed on them, entirely Roman, put this matter out of controversy. The writer of the Memoir on this subject hath ingeniously aimed to make these vessels so discovered to be of the kinds used in the religious ceremonies of the Romans. The *patera* indeed was so, as we learn from the authority of history, and see confirmed by the valuable records of antient basso-relievos, which are possibly the most faithful monuments extant of the habits, usages, and customs, of antiquity. But though some of these vessels have the *patera* form, yet the greater part which have been found are of very different shapes and sizes, and evidently appear to have been made rather for culinary, than for religious purposes; they might have baked puddings and pies, stewed meat, or served for tarts or custards. And the unenlightened fishermen have very sensibly and very uniformly applied them to these purposes, till the ardour of the antiquary rescued them from their hands.

THE conjecture of the gentleman who gave in the paper alluded to, that there was a manufactory of this pottery established on or near the spot where these vessels are now found, wants a stronger foundation



foundation to build an opinion of this sort on, than the *lump of cemented bricks* discovered in the hawl of a net. There is but little room to conceive that a manufactory of this kind was, or ever could be carried on in the middle of the sea, and full as little reason to suppose that that element had made such vast devastations on this part of the Kentish Coast, from which, in the neighbouring isle of Thanet, on the Sandwich Flatts, and also all along Romney Marsh, it incontestibly appears to have in a very singular manner receded.

It may be asked by some, how it could happen that this collection of pottery was never earlier discovered, since it must have lain here so many centuries? Every thing of this nature must be the meer event of chance, and chance only can decide it. It is very probable that the greatest part of this collection might be deep buried in the sands, and might remain there for a long course of years, till particular winds, acting in a particular manner on the waters, might not only wash away the sands which imbedded them, but also prove the means of carrying some of them to a distance from the spot where they originally might have lain. Added to this, the mode of fishing improves, as other arts do, in a commercial and polished nation. If any particular object had carried the Whitstable fishermen to this place three hundred years sooner, there might not be a pan now left to exercise our opinions on: by the same rule it might have been reserved for a discussable point at a future distance of time equally remote. Fish are well known to shift continually their quarters, they move from shoal to shoal, from sand-bank to sand-bank, and are possibly as capricious and variable as the inhabitants of the shores. Experience teaches the fishermen to pursue their motions, and it was probably in quest of them that this Pudding-pan Sand was first stumbled on.

Mr.

MR. JACOB speaks of the vessels found at this place to be far more scarce than I have heard, or found that they are. He says, *that in forty years he hath not met with above sixty pieces, and that a fisherman in the course of thirty years working in and about this spot, never found but one pan that was entire.* I went to dine with the minister of Whitstable in the summer of 1776, and being desirous of gratifying the curiosity of some brother Antiquaries, I in less than an hour's walking among the fishermen's houses, purchased ten or twelve pieces, two or three of which were perfect and entire, and I am satisfied I might have brought away double that quantity, had I been disposed to enlarge my collection.

THE fact is, here they are found, and are incontestably of Roman pottery. It is as clear a fact that wherever the Romans carried their arms they carried also some or many of their arts. Pottery was probably a considerable source of traffic, being one of the first wants of mankind, and one of those things which was of the earliest invention. Had the variety of pieces here found been of one and the same manufactory they would, judging of things past as by things present, have all borne the name of the same maker, or probably of two or three, if there was a considerable partnership. But Mr. Jacob gives us the names of fifteen different makers of such pieces as are in his own possession, and the names of fifty more may have been buried in the sands of Kent. Mr. Jacob's account strengthens the opinion that they must be the produce of different manufactories sent to market, put on board a vessel freighted for Britain, or for the use of some of the Roman stations in Kent. This brings them *naturally* on our coast, where they are as *naturally* wrecked; and where lying on these sand banks where the Whitstable fishermen have of late years dredged for oysters, they have been *naturally* brought up by their nets. And this  
4 seems

seems to be the *natural* solution of their mode of being discovered. The Romans carried their pottery to many countries besides ours. I have in my own possession pieces which exactly correspond with some of these, and which were brought from, and found in and about that spot in the neighbourhood of Carthage, where Utica was (by the conjectures of Dr. Shaw and the evidence of other historians) supposed to have stood. This strongly confirms me in my opinion on this subject. But the field of *conjecture* stands ever wide open to every investigator, and the CRITIC, the COMMENTATOR, and the ANTIQUARY, are among those who most delight to take a frisk in it.

GEORGE KEATE.



XVII. *Nummi Palmyreni illustratio per rev. Carolum Godofredum Woide, S. A. S.*

**I**NVENIT nuper doctissimus et rerum numismaticarum peritissimus, Carolus Combe, S. R. et S. A. S. in gazophylacio praestantissimo celeberrimi Guilielmi Hunteri, M. D. S. R. et S. A. necnon Societatis Regiae Scientiarum Parisien. socii, nummos, quales in Europa nondum vidimus, *Palmyrenos*, cujus characteres cum alphabeto Palmyreno contulit, et cum eo convenire deprehendit. Apparet in his nummis caput barbaturum ad sinistram, cui tres literae a dextra et quatuor a sinistra parte adjectae sunt. Primam literam *r* *jod* esse doctissimus Combeus recte asserit. Licet enim in alphabeto Palmyreno [Philosoph. Transact. vol. XLVIII. pag. 693.] paulo aliter scribatur: attamen in ipsis inscriptionibus Palmyrenis aliquoties eandem habet formam [a], quae in hoc nummo conspicitur. Secun-

[a] Vide inscriptionem, 11<sup>ta</sup> lin. 7<sup>ma</sup> littera 1<sup>ma</sup> tab. xxiv. et tab. xxx. in medio lineae 11<sup>ae</sup>.



dam literam esse *be*; tertiam *thet*; quartam itidem *be*; quintam *thet*; sextam *jod*; septimam *lamed* esse deprehendent qui has literas cum alphabeto Palmyreno comparare volunt.

POSTICA nummi pars templum exhibet, in cujus medio lapis quadratus, symbolum divinitatis, cernitur: quod etiam aliis nummis vir eruditissimus comprobatur. Ad utramque templi partem literae adpositae sunt quatuor ad dextram, et tres ad sinistram. Primam harum literarum esse *be*; secundam *shin*, quod cum sequenti litera per lineolam horizontalem connectitur; tertiam *mem*; quartam *be*; quintam *tau*; sextam *mem*, et ultimam iterum *be*, quivis concedet qui alphabetum Palmyrenum cum iis contulerit. Detectis itaque per doctiss. Combeum felicissime ex utraque parte nummi literis, nihil aliud superest, quam ut de significatione vocum, quas efficiunt, simus solliciti.

Et antica quidem pars nobis exhibet voces;

Haththil

Joheth

חטל

יהת

Prior vox *Joheth* nomen proprium regis vel ducis Palmyreni esse videtur. Licet enim historia hujus regni nobis sit ignota, attamen haec vox e linguis orientalibus commode deducitur. יהת, apud Arabes et Samaritanos significat *prostrernere, conculcare, confodere, occidere*: et hoc loco, vel *Jebeth*, יהת, quod est futurum, *conculcabit*; vel *Joheth* יהת, quod est participium praesens, *conculcans*, potest punctari. Hoc nomen duci bellatori convenit.

ALTERA vox *Haththil* habet *be* articulum sibi praefixum, et priori nomini proprio apposita est. Palmyrenos *be* articulum, quem Hebraei adhibent, etiam admisisse, ex inscriptionibus Palmyrenis aliquot exemplis potest probari. Ipsa vox est *Tbil*, טב, quae a verbo טב derivatur; quod apud Hebraeos *ejicere, deijcere,*

*dijicere*, significat, et apud Arabes etiam adjectivum الطول *al-pool* *vel* *הטל*, *Harthibil*, conservatum, quod *potentem* secundum Giggeum, et *indulgentem* in Alcorano denotat. Talia nomina reges Syriae et Parthiae adsciscere solebant, quorum priores multi *ἐπιφανής* posteriores *μεγας* appellabantur.

In postica parte septem literae reperiuntur, quas sic divido :

Hattameh

Hashem

התמה

השם

Binae hae voces Hebraeis, Chaldaeis, Syris, et Arabibus non sunt ignotae; *nomen admirabile*, vel *venerandum* denotant, quod Lexica docebunt. Prior vox, *sbem* *שב*, habet *be* articulum sibi praefixum *hasbbsbem* *השבבש*, et juxta genium linguarum Orientalium reddi potest *nomen illud* per *emphasin*. Nomen illud admirabile denotat nomen divinum, nomen Dei: quo sensu etiam vox *שב* *sbem* apud Hebraeos, Chaldaeos, et Rabbinos, reperitur, et Deum ipsum designat; cujus rei exempla in Sacris Literis [6] et in Lexico Buxtorffii Chaldaico-Talmudico occurrunt, p. 2432.

Et notandum est, plures inscriptiones Palmyrenas hanc phrasin in initio exhibere: *timor nomini benedicto*, id est, *timor Deo* debetur.

Alius nummus Palmyrenus [cujus figura exhibetur N<sup>o</sup> 2. p. 130.] in eodem locupletissimo gazophylacio asservatur, in cujus antica parte est caput imberbe pileo conico tectum ad dextram. In postica parte octo literae apparent, quas ulteriori examini reservamus, et submittimus.



[6] Deut. xxviii. 58. ad reverendum nomen hoc honorandum et timendum, Jehovam, Deum tuum. Quod in Hebraico est *השם הנורא*, *Hasbbsbem*, *Honara*, in nostro nummo *השם התמה* *Hasbbsbem Hattamah* exprimitur.

XVIII. *Four Letters from Beaupré Bell, Esq. to Roger Gale, Esq. on the Horologia of the Antients, with Mr. Gale's Answer.*

Read December 14, 1780.

SIR,

SINCE my last, I have received from an ingenious friend the following inscription, made use of in building the Benedictines church at Taloire (an inconsiderable village, half a league from Annecy, a town upon the lake of Annecy) which he observes not to be published with due exactness by Gruter.

HOROLOGIVM . CVM . SVO . AEDIFICIO . ET .  
SIGNIS . OMNIBVS .  . ET .  . CLATRIS .  
C . BLAESIVS . C . FIL . VOLTINIA . GRATVS . EX . HS . N .  
ET . EO . AMPLIVS . AD . ID . HOROLOGIVM . ADMINIS .  
TRANDVM . SERVVM . HS . N . IIII . D . S . R .

I HAVE not any author that treats of the Horologia of the ancients, so am ignorant of what kind this could be; for were it of water, the length of the winter, and the severity of their climate, would render it useless full three parts of the year. Nor can I make any conjecture of the *aedificium*, the business of the servant who attended it, or the *signa*, whether that word imports statues, or coelestial signs. If you recollect any thing that may explain this inscription, do me the favour to inform me. 'Tis Petronius, I think, speaking of a person of quality, that

that tells us it was the whole employment of one of his slaves to proclaim the hours by sound of trumpet; but I have no copy of him about me.

*Mr. GALE's answer.*

I WISH I could have found the inscription you sent me, either in Gruter, or any other author in my possession; but in turning over all of them that I am master of upon that subject, *operam et oleum perdidit*. I was the more desirous of finding it, because I am pretty well satisfied that you have not received it rightly transcribed from your friend, though he accuses Gruter of inaccuracy in publishing it. Few modern authors have wrote any thing worth notice, none as I know of, expressly *de Horologiis*; but all that has been said upon that subject has been only *obiter*, as it has been accidentally thrown in their way, while they were perusing other matters. The most that you will find of it is in the following:

Greenius, de Rusticatione Romanorum, cap. 19.

Crusius, de nocte, et nocturnis officiis, cap. 3.

Petrus Viola, de veteri novaque Romanorum temporum ratione, § de horis.

Magius, de Tintinabilis veterum, cap. 6.

Angelus Roccha, de Campanis.

Johan. Lawrentius, de annis, mensibus, et diebus.

But you have a much more satisfactory account of the ancient Horologia in Pliny, than can be collected from these authors; and in Vitruvius, from whom it appears, that the ancients had but two ways of distinguishing their hours; one by the sun, the other by motion of water. The first was very irregular; for beside their want of astronomy to adjust their dials according to the motion of the earth round that coelestial body, they divided their day into twelve parts, from sun-rise to sun-set; so that



that the hours were longer in the summer than the winter, which was extremely absurd, besides their being totally at a loss in cloudy weather. This obliged them to have recourse to water machines, as of more regularity and certainty, to shew the hour. But to give you the introduction of the former, and progress of it at Rome, would be only to transcribe the 60th chapter of the VIIth book of Pliny; at the latter end of which, he tells us, that Scipio Nasica who was consul with Laenas, A.U.C. DXCv. first divided the hours of the nights and days with a *clepsydra*, *idque horologium sub tecto dedicavit*; of which sort, I take that mentioned in your inscription to have been; and *aedificium* mentioned in it, the same thing as Pliny's *tectum*. He does not tell us how the construction of their sun dials was performed; but they seem to have been adjusted from the shadow of a pillar (which was the *gnomon*) projecting upon the ground, as from the *Columna Moenia* mentioned by him; and the great Aegyptian Obelisk adapted to this purpose by the emperor Augustus in the Campus Martius. Vitruvius gives a large account of the water dials in the ninth chapter of his IXth book, and mentions the construction of several sorts of sun dials in the eighth, to both which I refer you, as the compleatest account given us of them by any of the antients.

BOTH sorts seem to have belonged chiefly to the public, of which your inscription is no small confirmation. Few private men could be masters of such expensive curiosities; the charge of making them, and the keeping a servant to attend them, as seems to have been necessary, was too great a burthen for a private purse; and hence, I believe, came the custom of having clocks for the most part in our church steeples, for the use of the whole parish.

GRUTER gives us an inscription mentioning a *Templum Horologiarum* dedicated *Jovi optimo maximo et Junoni Reginae, &c.* as  
I quoted

I quoted from Pliny above, *Scipio Nasica id horologium sub tecto dedicavit*: both which are strong instances of their being looked upon as sacred, and that these monitors of time were kept in places religious; for I think *Horologiare Templum*, and *Horologium sub tecto dedicavit*, can import no less than a temple with such a device in it, and a *Clepsydra* dedicated under some building to defend it.

PETRONIUS ARBITER speaking of the elegant and expensive life of *Trimalchio*, in the passage you hint at, seems to sum up the whole idea of his magnificence, in describing him as *Lau-tissimus homo Horologium et Buccinatorem habet in Triclinio subornatum, ut subinde sciat quantum de vita perdiderit*. This, probably, was a *Clepsydra*; but the *Horologium* that he ordered to be placed upon his tomb, *ut quisquis horas inspiciet, velit, nolit, nomen meum legat*; was probably solar. Every body knows that *Nero* is intended and satyrized for his vain glory, luxury, and other vices, under the name of *Trimalchio*.

I WILL not take upon me to determine what were the *Signa* mentioned in this inscription. If they were statues, it is probable they had a relation to the machine, and might have been the *quatuor anni tempora*, or of the winds, which, as we gather from *Fulvius Ursinus*, *Donatus*, and *Marlianus*, were represented on the *Horologium* projected by Augustus, under the obelisk in the *Campus Martius*. *Horologium superioribus annis erat effossum: solum campi erat ex lapide quadrato, et habebat lineas distinctas metallo inaurato, et in angulo quatuor erant venti, ex opere musivo, cum inscriptione BOREAS SPIRAT. unde in omni latere simile quoddam dictum olim expressum conjicio*: and *Varro* calls the octogonal tower of the winds at Athens, mentioned by *Vitruvius*, *Horologium*, because there was on every face of it a sun dial, some lines of which are still visible.

PETRONIUS, in his relation of *Trimalchio's* whimsical supper, gives you a dish of a honey-comb, laid upon a turf in the middle,

middle, to represent the earth, and garnished with the twelve signs of the Zodiac, or rather something alluding to them: *Repositorium rotundum XII habebat signa, in orbe disposita*. Would not a man of such an elegant taste have thought these ornaments as proper for his clock, as his table?

THE *Aedificium*, or *Tectum*, was to protect the *Clepsydra* from the coldness and accidents of the external air. Under such a cover the liquor might be always kept in a pretty equal temper and fluidity, by the means of fires or stoves in the winter, and exclusion of the sun in summer; and the word *administrandum*, in the inscription, may have a view to that performance.

THE *Clatri*, or *Clathri*, I think to have been rails fixed round the *Aedificium*, to fence it in from the street where it was built; like the *cancelli* mentioned upon an altar, found a few years ago at *Dorchester*, in *Oxfordshire*, and published in Mr. Horsley's *Brit. Rom.* p. 339. 352. *Jovi optimo maximo et numinibus Augusti M. Varius Severus B. cos. aram cum cancellis de suo posuit*. These fences were so sacred, that they worshipped a *Dea Clathra, clathrorum et cancellorum dea*, who had the guard of them.

IT is the end of the third line that causes me to suspect your copy of this inscription to be imperfect, as I said before. It ends *EX. H. S. N. ex sestertiis nummum*; the figures denoting the number being plainly deficient, and, perhaps, defaced or broken out at the corner of the stone by some accident, for we find the number of the sesterces expressed in the fifth line *HS. N. IIII*. though I am not without my scruples as to a defect there also, or that the number *IIII* has not been rightly transcribed; since four sesterces, at the highest estimation, amounts to no more than thirty-two pounds five shillings and ten pence, and would purchase a very poor maintenance for a public servant to give constant attendance upon this machine; and if we should read these numerals *IIII, sesterciorum numm. quatuor millia*, as the

line drawn over them may seem to intimate, the sum would be no less than thirty-two thousand two hundred and twenty-one pounds, fifteen shillings and four pence, which exceeds all reason, and cannot be allowed.

I CANNOT but think this inscription has been cut upon the stone originally after another manner, and in shorter lines than as it has come to your hands, and that it concludes thus,

SERVUM . HS . N . IIII .

D . S . R .

And so some numeral note that might have augmented the sum (of the small sesterces) might have been likewise lost at the edge of it; the placing of the D . S . R . *de suo restituit*, is much more usual in a line at the bottom by themselves, than in the same with any letters preceding. You have in *Reinesius' Syntagma* an inscription, but much mutilated, which mentions an *Horologium a novo restitutum*.

IT is, as I suppose, wrote SERVUM instead of SERVVM in the original; and that the business of this servant was to watch and take care of the *Clepsydra*, and give notice to the town, like Trimalchio's boy by some signal, how the hours passed away.

THE hours were notified to the consuls and praetors in court by their *accensi*, or cryers. There is a remarkable passage in Pliny, lib. VII. c. 60. which shows the ignorance of the Romans in the art of dialing. The cryer gave the consul notice when it was mid-day, and the last hour of the day only by his observation of the appearance of the sun *inter rostra et graecostasin*, and a *columna Moenia ad carcerem inclinato sydere supremam pronuntiabat*. Varro tells us, *praetorem accensum solitum esse jubere, ubi ei videbatur horam esse tertiam, inclamare horam esse tertiam; itemque meridiem, et nonam*. In public affairs, a public officer was ordered to cry the time of day. See Fabretti Inscript. p. 433. de *accensis*.

TRIMALCHIO'S



TRIMALCHIO's boy proclaimed his loss of time more magnificently, by the sound of a trumpet; and perhaps the *aes thermarum* in Martial might be a trumpet, for Virgil calls a trumpet so. *Aere ciere viros, martemque accendere cantu.* Aen. vi. 165. but the word *aes* is of so large and extensive a signification, that it is impossible to determine it to a particular instrument; and in the epigram it may import no more than the tinkling of a brass basin, to give notice when the baths were to be shut up: *redde pilam, sonat aes thermarum.*

VITRUVIUS in his ninth book, c. 9. directs the placing of the wheels and tympana in one of his *clepsydra*, to be *ad eundem modum dentata, quae una motione coacta, versando faciunt effectus, varietatesque motionum in quibus moventur sigilla.*

AGAIN, in his, *Horae describuntur, quas sigillum egrediens ab imo virgula significat per totum diem.* These sigilla were diminutive *signa*, or little images for pointing out the hour of the day marked upon a column; and why might not Varro's *Lucifer* and *Vesper* be moved by such sort of mechanism? (De re rust. M. 5.)

*Descriptio XII caelestium signorum fit figurata, cujus e centro deformatur cujuslibet signi spatium, &c.*

Mr. BELL to Mr. GALE, in answer to the preceding Letter.

I RECEIVED the entertainment of your curious letter concerning the ancient Horologia in due time, for which I ought long ago to have returned my sincerest thanks, but hope you will pardon my silence, which has been entirely owing to some excursions I have made, both by the invitations of my friends, and the fine weather, at Cambridge. I spent some hours with our friend Mr. Baker, but had the ill fortune, at that very time, to miss the satisfaction of waiting on you; for Mr. Gale,

T 2

your

your son, assures me you were then in the university : I hope, fortune will be some time more favourable.

WHAT you have said concerning the Taloire inscription is extremely satisfactory; from any other gentleman, I should have been surprized to have so much learning summoned up almost extempore on so dry a subject. I have since met with a description of the clepsydra by which the lawyers declaimed in causes after evidence was given, and which those long-winded gentry complained of as a cramp to their genius.

*Sic rursus praeconis amplo boatu citatus accusator quidam senior assurgit, et ad dicendi spatium vasculo quodam in vicem coligraciliter fistulato, ac per hoc guttatim defluo, infusa aqua, populum sic adorat [a].*

Which shows that it consisted of a single tube, not a double one like the hour-glasses now in use : and the following passage from Pliny informs us, that they were of various magnitudes, but none of them ran above twenty-minutes, or so much, if for *decem* you read *duodecim* with some manuscripts. *Dixi horis pene quinque ; nam decem clepsydri quas spatiosissimus acceperam sunt additae quatuor [b].*

THE curve of a vessel might easily be known wherein the water should easily decrease equal spaces in equal times, and the hours be found by its perpendicular attitude; but this seems not to have been practised by the Romans.

My enquiries after coins, in my journeys, have not been without success; for, besides a Decentius, Marius, and Quintilus, I have picked up half a score of Carausius, one of which has the wolf and twins, but the legend so defaced, that I can make nothing of it. I am, Sir, yours, &c.

BEAUPRE BELL.

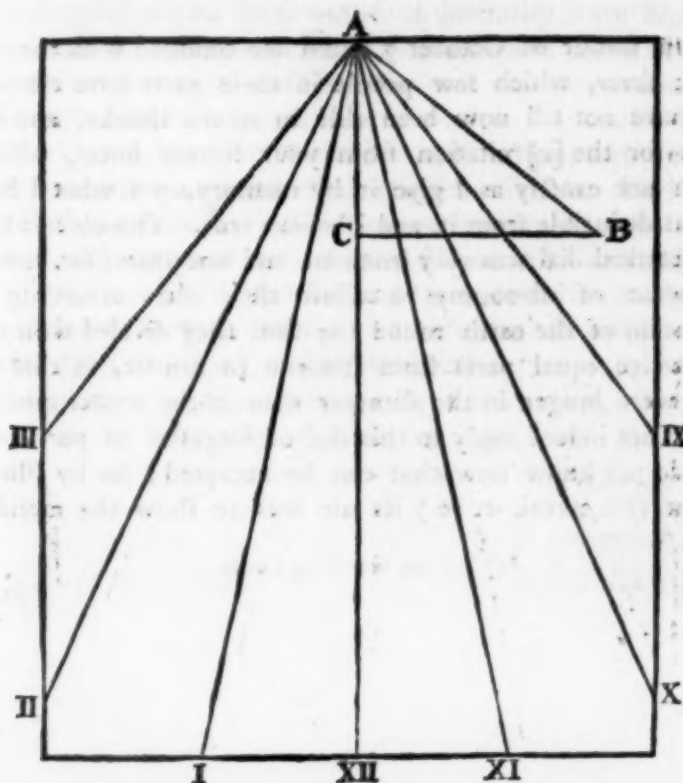
Stanford, August 24, 1735.

[a] Apul. Metam. iii.

[b] Plin. Epist. lib. ii. 11.

Third Letter from Mr. BELL to Mr. GALE, concerning the inscription upon the Horologium at Talouire.

I MADE my excuses to you while at Stamford, for deferring my thanks for your curious dissertation on the Talouire inscription. I hope, that letter came to hand, lest you should suspect me of a voluntary neglect. It is now time to have done with that inscription, but observing your remark; that the dial of Augustus must be liable to great variation, because its style was placed perpendicular to the horizon, I take the liberty of adding an horizontal one for the latitude of Cambridge,  $52^{\circ} 12'$ . whose style is perpendicular, yet, I believe, accurate; which, though I propose, I do not suppose the Romans were acquainted with this piece of mathematicks.



142 *Mr. BELL on the Horologia of the Ancients.*

ERECT the line CB for the perpendicular style of any height, and at the point B, make an angle equal to the complement of the latitude 37. 48. which will give the point A, which will represent the centre of the earth; and AB the style of the dial, or axis of the earth. From this point A all the hour-lines are to be drawn, according to the rules of dialling; this being done, the style CB set up perpendicular to the plane in the line A. XII. and at the distance AC will be the end of the shadow, only give the hour. Yours,

B. BELL.

Beaupré-hall, near Wisbech,  
September 29, 1735.

Fourth Letter from Mr. BELL, concerning the Horologia of the ancients.

YOUR favour of October 7 found me confined with the epidemick fever, which few people in these parts have escaped, and I have not till now been able to return thanks, and beg pardon for the [c] citation from your former letter, which, though not exactly as I give it by memory, yet what I have said was deducible from it, and I believe true. You observe that the scioterical dial was very irregular and uncertain, for, besides their want of astronomy to adjust their dials according to the motion of the earth round the sun, they divided their day into twelve equal parts from sun-rise to sun-set, so that the hours were longer in the summer than in the winter months. You do not indeed apply to this dial of Augustus in particular, but I do not know how that can be excepted; for by Pliny's account (lib. xxxvi. c. 10.) its use was to show the meridian

[c] See the preceding Letter.

1

hour,



hour, the increase and decrease of days, and the sun's place in the ecliptick by the length of the shadow: and yet Pliny esteemed this, which might be done without one bit of astronomy, *digna cognitu res, et ingenio foecundo*. I can say nothing to the additional machinery of Manlius, for I do not understand the passage. What I asserted of the variations of the dials of the antients with perpendicular styles, is certainly true, when the hour-lines are drawn from the foot of the stile as from a centre; for such hour-lines must be drawn by observing the shadow of the style at every hour of the same day, and therefore continually vary, and shew the hour exactly, only on the return of the day whereon the lines were drawn, and such, I apprehend, were the dials of the antients; for had they known the way of drawing the hour-lines from the true centre of the dial, which is the intersection of the axis, or inclined style, with the dial-plane, they would undoubtedly have had dials with inclined styles, which, as they had not, those they had must continually vary, and show the true time only on one day of the year.

VITRUVIUS says, they had horizontal, vertical, and declining dials, but gives no manner of description of them. He has indeed shewn the manner of making an horizontal one for the latitude of Rome, and two or three places, by a perpendicular style, but these could not be of more use than that of Augustus, therefore confirm what I observed, that the dials of the antients must be subject to daily variation.

XIX. *Account of an Historical Monument in Brittany.*

*By Mons. D'Auvergne.*

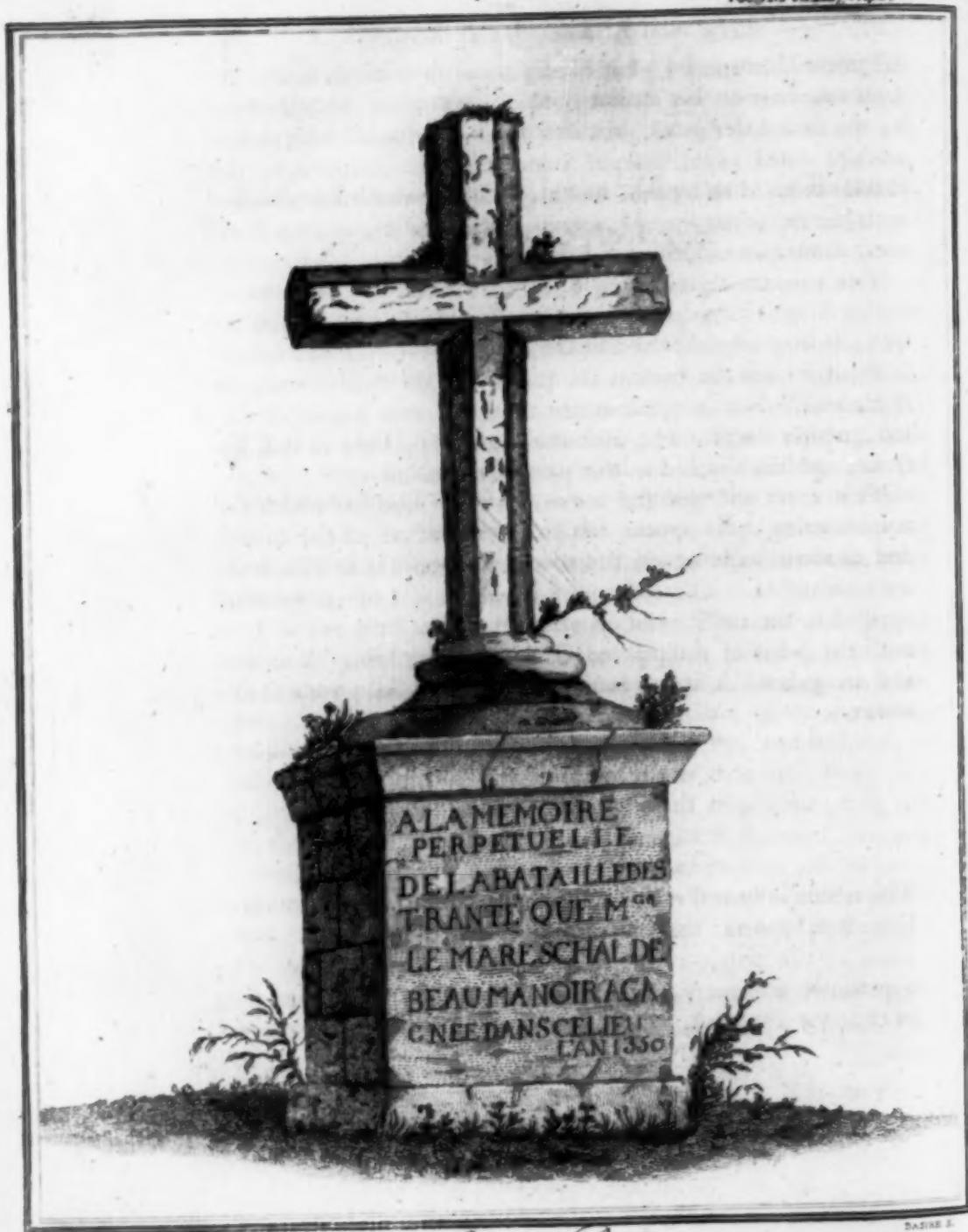
Read February 8, 1781;

**R**ETURNING in December 1780 from viewing antiquities in the neighbourhood of the *Morbihan*, late the *Mare conclusum* of Cæsar, I took in my way the town of *Ploemmel*, famous in the history of the province for having been the seat of the foreign dukes, when Brittany maintained its independence.

On the road about midway between *Ploemmel* and *Jocelin* another small town, about seven English miles distant from the former, upon a small open heath I saw a low cross on a pedestal. As it appeared of different structure to the numerous crosses seen on the highways in this country, and had the appearance of antiquity, I rode up to it and was not more surprized than pleased to find it a monument commemorating one of those partial combats so frequent in the sixteenth century. I was the more interested in its particular investigation on being informed by a learned prior of the Carmelites who accompanied me, that the English were combatants on the one part against the Bretons on the other.

As I did not recollect in my readings, ever to have heard this anecdote noticed, except by Voltaire in his "*Elements de l'Histoire*





Drawn on the spot by J. B. A. de la Roche, 1770.

*Ancient Cross in Bretagne.*

DASSE 2.



"*Historie Universelle*;" but his historical facts are so frequently doubtful, that on his authority alone I gave but little faith to it; my friend the priest procured me a copy of an antient manuscript dated 1470, whence I composed the anecdote of the combat referred to by this monument, and which I find agrees with the facts stated by *D'Argentré, Dom Morice, et Dom Lobineau*, illustrious historians of Brittany.

THE annexed sketch (plate XIX.) is an exact representation of the cross with its pedestal, and inscription, taken literally on the spot. It may be observed that the numerical word *trante* is spelt differently from the present acceptation of the "*Dictionnaire de l'Académie*," but is conformable to the vicious provincial dialect, which the few who used the French language in that age spake, and still retained in this part of the country.

THE cross and pedestal are of a grey granite, of which the neighbouring hills appear composed, and of which the antient and modern buildings in the towns of Jocelin and Ploemmel are constructed. The inscription is on the face of the pedestal opposed to the south, and appears to have been cut in the stone with the point of a tempered instrument, the letters ill formed and irregular. A literal translation of these lines runs as follows:

" To the perpetual memory  
" of the battle of the thirty  
" that my lord Mareschal  
" of Beaumanoir gain'd  
" in this place the year 1350."

The whole is near seven feet high, but little defaced by time. Indeed it appears, that the intermediary commissaries of the states of the province, by a vote of that assembly proposed by a patriotic antiquary, expended twenty-four livres five sols, in the year 1776 [a], to clear this monument from briars and

[a] This sum is a small fraction more than one guinea.

weeds that concealed it from public view; and to whitewash the pedestal, and black the letters to make the inscription more legible. Dom Lobineau, in the folio edition of his History of Brittany, Paris 1754, gives the names of the thirty Breton knights, who were the champions of their province on the occasion, and from whom most of the present noble and ancient families of Brittany are descended. I could not discover more than two of the names of the thirty English heroes: one was Brembro', chief of the auxiliary troops furnished by king Edward of England to John of Montfort, to support his claim to the ducal crown of Brittany. The other Knolis, or Knoles, probably one of the illustrious predecessors of the noble family of Sackville-Dorset [b].

Historical anecdote from the ancient Chronicles of Brittany.

A. D. 1347 to 1350.

"THOMAS D'ACERWORTH was a commander in the auxiliary troops furnished by Edward king of England to his relation

[b] The author probably supposes this from the seat of the Sackville family at Knowle in Kent, agreeable to the French custom of joining the name of their estates to their surname. This Sir Robert Knoles was one of the most celebrated warriors of his time. Historians seem to have been at a loss for words to express his valour. Anstis says his military exploits were beyond imagination illustrious; another author calls him "agregius bellator", (K. 8. 76. in Coll. Armor.) and another says he was "le véritable Demon de la Guerre" (L'Hist. de Charles VI. par le Laboureur, p. 78.)

"O Roberte Knollis, per te fit Francia mollis

"Ense tuo tollis pœctas, dans vulnera collis."

He is said to have been of low extraction in Norfolk, but to have raised himself by his extraordinary bravery; he was lieutenant of Brittany under John de Montfort, and was appointed seneschal of Guienne by king Edward III. (see Les Rolles Gascons.) He died 8 Hen. IV. 1407, far-advanced in years, and was buried with Constance his wife in the White Friars, London, leaving an only daughter Emma his heir married to John Babington. The family of Knollys of Grove-Place in Hampshire claim to be a younger branch of this Sir Robert Knollys. J. C. Brooke.

"and

“ and ally John of Montfort to support his pretensions to the  
 “ sovereignty of Brittany against Charles of Blois, who had  
 “ been taken by this same D’Ageworth, in the year 1347, and  
 “ was at this period a prisoner in the Tower of London; but  
 “ whose claims were supported by his partizans who continued  
 “ numerous in Brittany. A body of his army consisting of one  
 “ hundred auxiliary Frenchmen of arms, under the command  
 “ of a valiant adventurer of that nation, name *Cabours*, having  
 “ been sent to the neighbourhood of Auray [c], where D’Age-  
 “ worth was governor, to commit depredations upon the ter-  
 “ ritories protected by this chieftain for his sovereign’s ally,  
 “ they were sallied out upon by D’Ageworth and his garrison,  
 “ composed of one hundred English soldiers. The conflict ex-  
 “ hibited prodigies of valour from both [d] auxiliary parties:  
 “ the great exertions however of *Cabours* decided the victory  
 “ in his favour, and put the lives of D’Ageworth and his  
 “ brave fellows in the victor’s power, who inhumanely put  
 “ them all to the sword [e].

[c] A small ancient town on the Morbihan sea, founded by the Veneti.

[d] It appears plainly that this was a French and English war carried on under a mask.

[e] This Thomas D’Ageworth as the Chronicles of Brittany call him, was Sir Thomas Dagworth of Dagworth in Suffolk, knt. son and heir of John de Dagworth by Alicia de Bellomonte his wife. He was one of the most celebrated warriors of his time. See Walsingham, Knighton, &c. the latter historian gives some account of his death by the treachery of the French, partly similar to the above. In 20 Edward III. he was appointed the king’s lieutenant in Brittany, and afterwards to John son of John de Montfort duke thereof, see Les Rolles François for his appointments &c. in that country. He had a son Sir Nicholas Dagworth, knt. who was also a man of considerable note in his time, and much in favour with Richard II. The heir of this family married William lord Furnival of Sheffield, and carried the manor of Dagworth and a considerable estate into that family. J. C. Brooke.

" RICHARD BREMBRO' [/] an English chief, commandant  
 " of Ploemel, and the friend of D'Ageworth, determined to  
 " avenge his death. He sent out the garrison of Ploemel into  
 " the neighbouring country to plunder and destroy every thing,  
 " and murder every person without distinction of age or sex;  
 " excesses that revolt humanity, and can only be reflected upon  
 " with horror, are said to have been committed under this  
 " cruel licence. The Marechal de Beaumanoir, one of these  
 " heroes that are dear to humanity, who then commanded at  
 " Jocelin for Charles of Blois's party, asked a safe-guard of  
 " Brembro' that he might meet him: which being granted, the  
 " Marechal repaired to Ploemel, where he strongly reproached  
 " Brembro' with the barbarous ferocity that he allowed his  
 " troops to exercise towards unarmed and defenceless inhabi-  
 " tants. The haughty and vindictive temper of Brembro' bore  
 " with impatience the stinging reproaches of the Breton, and he  
 " spoke of their behaviour without reserve, forgetting that it  
 " was a party of auxiliary French adventurers that had murder-  
 " ed his friend. The pride of the Marechal Beaumanoir made  
 " him reply to Brembro' in the same tone. The dispute grow-  
 " ing warm, in order to terminate it, and repress the excesses  
 " complained of, Beaumanoir is said to have proposed (as was  
 " not unusual in those days), a partial combat between a cer-  
 " tain number of champions of both nations, which challenge  
 " being accepted by Brembro', thirty was fixed as the number  
 " of combatants on each side, and the fifteenth day of March

[/] So the name is spelt in the manuscript, but evidently mistaken by the French writer, no such name or any thing like it occurring in the records of that time. It is probable that the author has meant Sir Richard Grenacre, knr. who was a native of Lancashire, and flourished in the French wars in this reign. This Sir Richard was made governor of Ploemel in Brittany abovementioned by Edward III. and it appears that the same thing granted him letters of protection on his departure for that country. J. C. Brooke.

" (Julian



" (Julian Calendar) A. D. 1530 appointed for the day: the  
" field of action to be on an high ground near the midway  
" oak [g] between the two garrisons. Preparations were ac-  
" cordingly made by each party. It being much anterior to  
" the use of gunpowder in Brittany, the champions were con-  
" sequently armed as was usual in those countries before that  
" period, with swords, lances and javelins. Beaumanoir appear-  
" ed there on the appointed morning, at the head of twenty-  
" nine of the most distinguished knights of his party. Brem-  
" bro' met him at the head of twenty-nine veteran English-  
" men. All the nobility of the province of both parties were  
" present at the important contest. The combat began, and the  
" combatants fought with unremitted fury, like the champions  
" of the honor of both countries, when probably more by a  
" stroke of fortune than address, Brembro' received a mortal  
" blow from the javelin of a chevalier de Montauban: many  
" more of his party being wounded and the rest exhausted  
" with fatigue, that fatal stroke threw them into disorder, and  
" they were vanquished.

" THE remains of the Breton knights that fell in the con-  
" flict were carried to Jocelin, and there interred. Brembro' and  
" his unfortunate comrades were, it is conjectured, buried by  
" their dispirited survivors in the neighbouring enclosure, where  
" vestiges of sepulchral tumuli are yet seen, and which the pea-  
" sants from tradition call at this time *Le Champ des Anglois*."

[g] An oak said to have been growing on the spot where the cross now stands.

P. D'AUVERGNE.

XX. The

**XX. *The Commencement of Day amongst the Saxons and Britons ascertained. In a Letter to the Rev. Dr. Lort by the Rev. Mr. Pegge.***

Read February 15, 1781.

DEAR SIR,

THE beginning of *day* amongst the ancient *Greeks* and *Romans* (meaning by a day the *νύκτα*, or the space of twenty-four hours accomplished by a single revolution of the sun, to speak vulgarly) seems to be very clearly understood and determined, and is of great use and importance in regard to the innumerable passages of their authors.

THE same may be said in respect of the *Hebrews*; but as to the *Britons* and *Saxons*, the matter appears to be very dubious and uncertain, or at least is made so by the suggestions of a considerable Antiquary, who declares, ‘ When our ancestors the *Saxons*, or before them the *Britons*, began the day, I have no books to inform me [a].’ This, however, is a point which ought to be ascertained amongst them, as well as other nations, and for the same reason; and therefore it shall be the business of this short memoir to illustrate this doubtful problem in the best manner I can.

THE learned Antiquary, in the uncertainty under which he laboured, offers a conjecture in the following terms ‘ but, from

[a] Peck, *Desid. Curios. B. vi. p. 230. 4to Ed.*

‘ the

\* the word *noon*, I conceive one or other of them, if not both,  
 \* [*Britons and Saxons*], began the day at twelve of the clock.  
 \* The word *noon*, if I understand it right, signifies as much as  
 \* *novus dies* [*b*]. And to make way for this new etymology,  
 he rejects the old one from *nona*, i. e. *bora nona*, in these words:  
 \* *Minshew*, I see, derives it from *bora nona*, the ninth canonical  
 \* hour, which answers to our three of the clock in the after-  
 \* noon. But this derivation I cannot agree to, because from  
 \* time immemorial, the very use and acceptation of the word  
 \* hath been otherwise. For, according to the common accep-  
 \* tation, and according to the sense of all the Englishmen or  
 \* books I ever read or met with, it is as fully *noon* when the  
 \* sun hath once reached the meridian as when the clock hath  
 \* struck three.

BUT other authors, as well as *Minshew*, and very re-  
 spectable ones, deduce the word *noon* from *nona*: as Sir Henry  
*Spelman* [*c*], bishop *Kennett* [*d*], and Mr. *Johnson* [*e*]. Many  
 write it accordingly *none*, as *Skelton* the poet [*f*], *Hall* in his  
*Chronicle* [*g*], and Dr. *Plott* [*h*]. The Saxon *non* [*i*] has the  
 same original, and it amounts to the same thing whether our  
 word *noon* be the Saxon *non*, or the Latin *nona*, since they both  
 import the ninth hour of the day, and of consequence had no re-  
 lation originally to the sun in his meridional altitude, but to the  
 ninth hour, supposing the day to begin at six o'clock in the  
 morning.

[*b*] Peck, *Deſid. Curioſ. B.* vi. p. 230.

[*c*] *Spelman*, *Gloſſ.* p. 428.

[*d*] *Kennett*, *Par. Antig.* in *Gloſſ.*

[*e*] *Johnson*, *Collect. of Eccleſ. Laws*, a<sup>o</sup> 958.

[*f*] *Skelton*, p. 21.

[*g*] *Hall*, in *Rich. III.* fol. 40. b.

[*h*] *Plott*, *Nat. Hiſt. of Staffordſh.* p. 441.

[*i*] *Lye*, *Sax. Diſt.* v. *Non*. *Noin* in *Irish* is the evening. *Lloyd*, *Archæolog.*

I CONCEIVE then, that this term came to denote the time of dining; first, because it was the hour when in fasting people were allowed to break their fasts, or the monks to eat their dinner, which was after *noon-song* [k], and secondly that by an easy abuse or *catachresis* the word was brought to signify twelve o'clock, the common hour of dining, in all cases. It is remarkable, that, for some such reason, eleven o'clock is *noon* at *Trent* [l]; so arbitrary are things of this nature!

THE ground or foundation of Mr. Peck's conjecture being thus overturned by establishing the old etymology of the word *noon*, in opposition to the fanciful one of *novus dies*, the conjecture itself must consequently fall; or at least we are at liberty to investigate the commencement of the day among the *Saxons* and *Britons* upon a different and more probable hypothesis. And this, indeed, is the main question in agitation.

Now it should seem that the *Saxons* reckoning by nights and not by days (whereby the nights evidently preceded the days), their day began at evening; hence our *se'nnight* and *fort-night*; and see *Tacitus* [m], *Du Fresne* [n], *Sir Thomas Brown* [o], *Verstegan* [p] and *Thoresby* [q].

As to the *Britons* still more antiently their practice may be collected with some degree of certainty from *Cæsar's* Commentaries [r], where it appears that the *Gauls* began their day at the same time as the *Saxons* did, viz. with the evening; and it is always allowable to argue from the customs of the *Gauls* to those of our Island-Britons, where it follows, that these last be-

[k] Johnson, *Eccl. Laws* A. 958, he observes, that three o'clock was called *high-noon*, and mid-day *noon*.

[l] Wright, *Trav.* p. 494.

[m] Du Fresne, v. *Nox*.

[n] Verstegan, p. 38.

[o] Cæsar de B. Gall. VI. c. 16. Sir Thomas Brown, ubi sup. p. 172.

[p] Tacitus de Mor. Germ.

[q] In Sacheverell's Survey of *Man*, p. 173.

[r] Thoresby, *Duc. Leod.* p. 84.



gan their day at the same time. But though this may seem to be sufficiently conclusive, I shall nevertheless refer you, as a further support of the argument to Mr. Camden [1], Sheringham [1], Sammes [u], Wilkins [x], Richard's British Dictionary [y], and the following insertion in Du Fresne, concerning the *Armoricans*, 'Armorici Seifun vel Seithun, i. e. septem somni, dicunt pro septimana, et benos vel benoas pro bodie, quod proprie hac nocte significat [z].' I shall only add for a conclusion, that this argument from night's preceding day both among the *Saxons* and *Britons* will appear very forcible to all those who infer from the words of *Moses* in the first chapter of *Genesis*, as I think all do, that the *Hebrews* began their *nocthemeron* with the evening [a]. I am, Sir,

Your most obedient servant,

SAM. PEGGE.

[1] Camden, Brit. col. xix. 433, 434.

[1] Sheringham, p. 107.

[u] Sammes, p. 115. 148.

[x] Wilkins, Præf. ad Tanneri Bibl. p. 3.

[y] Richards, v. *Nor*, *Wythnos* and *Pythefnos*.

[z] Du Fresne, v. *Nor*.

[a] Sir Thomas Brown, l. c. p. 173.

**XXI. *Remarks on the Sumatran Languages, by Mr. Marsden. In a Letter to Sir Joseph Banks, Bart. President of the Royal Society.***

Read February 22, 1781.

SIR,

**E**NCOURAGED by the attention you paid to the subject when I had the honor of conversing with you on it, I take the liberty of presenting you with two comparative specimens of the languages spoken in Sumatra and other parts of the east. The one exhibits simply a list of fifty words; of universal use from the nature of the ideas they express; as spoken in twelve different countries or districts. The other exhibits a view of those words in the Sumatran and neighbouring languages, which are observed to correspond in sound and signification, with words in the languages of places situated at a distance from thence.

My chief design in these collections, was to trace, if possible, a common origin. My secondary object, to determine whether the various independent and unconnected nations who inhabit the internal parts of Sumatra, speak languages radically and essentially different, as is generally supposed by the Europeans resident there, or only different dialects of the same.

IN regard to the first I must confess that I have been but little successful, perhaps from want of sufficient opportunity of acquaintance

## Districts.

English	Malay	Macassar	Savu	Otaheite	Chinese
One	Satoo	Saydee	Uffe	Atahay	Cheed
Two	Duo	Dooa	Rooe	Erooa	No
Three	Teege	Tullo	Tullo	Torhoo	Sanh
Four	Ampat	Pa-me	Uppa	Attaa	See
Five	Lumo	Leema	Lumee	Ereema	Go
Six	Anam	Anan	Unna	Aono	Lacq
Seven	Toojoo	Peetoo	Petoo	Aheetoo	Shit
Eight	Slappan	Arrooa	Aroo	Awarroo	Peel
Nine	Sambilan	Affarra	Saio	Aeeva	Caow
Ten	Sapooloo	Sapooloo	Singooroo	Ahooroo	Chap
An hundred	Sa-ratoos	Sangatoos			Chapé
Husband	Lackee	Baronee		Tane	Ang
Wife	Beenee	Makoonraye		Huaheine	Poh
Father	Bapa	Ambo		Medooa tane	Enteeah
Mother	Mau	Endo		Med. waheine	Ncha
Brother	Sadarroo	Sadjee		Teine	Suotee
Head	Capallo	Ooloo		Oopo	Toucah
Eyes	Matto	Mattaye	Madda	Matau	Buxu
Nose	Eedong	Eengana	Sivanga	Eahoo	Peel
Hair	Ramboot	Gunmanna	Row	Eraowroo	Toumo
Cheeks	Peepee	Dowcheele	Cavaranga	Paparea	Sheepay
Belly	Proot	Allay	Dalloo	Eoboo	Pueto
Hand	Tangan	Tapha-lamay	Wälalea	Ereema	Tehoo
Legs	Cakee	Aapiengna	Baibo	Awy	Cahcoot
Garment	Badjoo	Cabadja	Cova	Aihoo	Sanh
Day	Aree	Bunnee-ee		Mahana	Iest
Night	Mallam	Pootee		Eaoo	May
White	Pootee	Lotong		Tea	Pay
Black	Etam	Macleching	Bulla	Ere ere	Oh
Good	Baye	Mattee		Myty	Hoh
Die	Mattee	Appee		Matte	See
Fire	Appee	Ooye		Wahaa	Whoey
Water	Ayer	Bunnoo		Avy	Choe
Earth	Tana	Taow		Fenooa	Toh
People	Orang	Calookoo	Momonne	Tata	Lang
Coconut	Clappo	Affunna		Taro - Aree	Ea
Teeth	Geegee	Babee	Vavee	Enechee	Checkee
Hog	Babee	Manoomanoo	Dolula	Booah	Tee
Bird	Boorong	Tello	Dullo	Manoo	Cheow
Egg	Tello	Iocco-edja	Nudoo	Aouero	Nooy
Fish	Eecun	Bra	Arree	Eya	Hee
Rice	Bray	Oobee		Oomarral	Bee
Potatoes	Oobee	Matangallo		Mahana	Whunchee
Sun	Matto Aree	Oolang	Wurroo	Marama	Jettaou
Moon	Boolan	Eedee		Efaitoo	Goosy
Stars	Beentang	Eey-na	O	Waow, Mee	Schay
I	Ambo, Say	Sakomaye		Ai	Gooa
Yes	Eeo	Allah tallah		Harre mai	Hoh
Come hither	Marce seen			Eatua	Layeno
God	Allah tallah				Teehn tay

List of words of universal use as spoken in two

English	Malay	Acheen	Batta	Lampoon	Nees	Rjang	Javan
One	Satoo	Sah	Sadah	Sye	Sembooa	Do	Seetje
Two	Duo	Dua	Duo	Rowah	Dembooa	Dooy	Roro
Three	Teego	Tloo	Tloo	Tullo	Tuloo	Tellou	Tullo
Four	Ampat	Paat	Opat	Ampah	Oopha	'Mpat	Papat
Five	Lumo	Lumung	Leemah	Leemah	Leema	Lemo	Leemo
Six	Anam	'Nam	Onam	Annam	Oonoo	Noom	Nanam
Seven	Toojoo	Toojoo	Paitoo	Peetoo	Pheetoo	Toojooa	Pectoo
Eight	Slappan	D'lappan	Ooalloo	Ooalloo	Ooalloo	Delapoon	Oloo
Nine	Sambilan	Sakoorang	Seeah	Seewah	Seewa	Sembilan	Sanga
Ten	Sapooloo	Saploo	Sapooloo	Pooloo	Phooloo	Depooloo	Sapooloo
An hundred	Sa-ratoos	Sa-ratoos	Saratoos	Saratoos	Oghoo	Sotofe	Satcoos
Husband	Lackee	Lackaye	Morah	Cadjoon	Dongagoo	Sacky	Lanang
Wife	Beence	Beenaye	Aboo	Cadjoon	Sealavee	Sooma	Ocadone
Father	Bapa	Bah	Ammah	Bapa	Amah	Bapa	Paman
Mother	Mau	Mau	Enang	Eenah	Eenah	Indo	Beang
Brother	Sadarroo	Addooh	Ahhah	Adding	Talleephoofoen	Cacoen	Sadooloor
Head	Capallo	Oolou	Ooloo	Ooloo	Hugu	Oolou	Endaf
Eyes	Matto	Matta	Mahtah	Mattah	Huru	Matty	Matta
Nose	Eedong	Eedoon	Aygong	Eerong	Eeghoo	Ecoong	Eerong
Hair	Ramboot	Oh	Oboo	Booho	Boo	Boo	Ramboot
Cheeks	Peepce	Meung	Oroom	Bechum	Bo-ogh	Cubbole	Peepce
Belly	Proot	Proot	Buttoohah	Tunnaye	Talloo	Tennuay	Oouattin
Hand	Tangan	Iarrooy	Tangan	Chooloo	Tanga	Tangoon	Lungan
Legs	Cakee	Buttees	Paat	Binto	Apeh	Bettes	Seekel
Garment	Badjoo	Badjow	Ahbee	Caway	Baroo	Badjow	Calambee
Day	Aree	Ooraye	Torang harree	Rannee	Loe-oh	Beely looeng	Deena
Night	Mallam	Mallam	Borgning	Beenghee	Boong-ee	B. calemmoon	Oongee
White	Pontee	Pootee	Nabottar	Mandack	Aphoofee	Pootee	Pootee
Black	Etam	Hetam	Nabcerong	Malloom	Ayto	Meloo	Eerung
Good	Baye	Gaet	Dengan	Buttie	Sooghee	Baye	Saye
Die	Mattee	Mattay	Mahtay	Jahal	Maté	Mattooce	Mattee
Fire	Appee	Appooy	Ahhee	Aphooy	Aleetoo	Opoay	Geennee
Water	Ayer	Eer	Ayck	Wye	Eedano	Beole	Banneco
Earth	Tana	Tano	Tana	Tanno	Tano	Peeta	Lumma
People	Orang	Orecoong	Halla	Ooloon	Neergha	Toon	Wong
Coconut	Clappo	Oo	Crambee	Clappah	Bunneco	Neole	Clappo
Teeth	Geegce	Geguy	Ningee	Eeflan	Eephoo	Aypen	Oontoo
Hog	Babee	Booy	Babee	Babooye	Bavee	Sooceetamba	Cheling
Bird	Boorong	Cheechim	Peedong, Manook	Boorong	Foopho	Benono	Mano
Egg	Telloor	Boh	Peerah	Tullooy	Adoolo	Tennole	Endo
Fish	Eecun	Incoor	Dekkay	Ewah	Eeagh	'Conn	Eewa
Rice	Bray	Breeagh	Dahans	Bees	Booragh	Blas	Bras
Potatoes	Oobee	Gadoong	Gadong	Cutillah	Gowwee	Ooby	Custela
Sun	Matto Aree	Mattowraye	Matah harree	Matta rance	Seene	Mattu beely	Sunningee
Moon	Boolan	Boolan	Boolan	Boolan	Bowa	Boolan	Oolan
Stars	Beentang	Beentang	Bintang	Bintang	Doophe	Beentang	Ooentan
I	Ambo, Sayo	Ooloon	Apoo	'Gnah	Eeow	Ookoo	Coula
Yes	Eeo	Nyoh	Olo	Eea	Eh	Aon	Inghce
Come hither	Marce feenee	Jah knnyi	Maré tofone	Eja dejah	Einee undch	Comeendi	Mareenee
God	Allah tallah	Allah	Daibattah	Alla Talla	Lowa langce	Oola tallo	Dewah



twelve different countries or districts.

	Malagasy	Mongaye	Macassar	Savu	Orakite	Chinese
	Eraike	Erafakoo	Saydee	Uffe	Atahay	Cheed
	Dooe	Lolaye	Dooa	Roce	Erooa	No
	Teloo	Loolcetoo	Tulloo	Tulloo	Torhoo	Sanh
	Ephat	Lopah	Pa-me	Uppa	Attaa	See
	Leemoo	Leemo	Leema	Lumee	Ereema	Go
	Enena	Daho	Anan	Unna	Aono	Lacq
	Pheetoo	Pheetoo	Peetoo	Petoo	Aheetoo	Shit
	Valoo	Apho	Arrooa	Aroo	Awarroo	Peeh
	Sevee	Scewa	Asarra	Saio	Aeeva	Caow
	Phooloo	Tooroo	Sapooloo	Singooroo	Ahooroo	Chap
	Tatoo		Sangatoos			Chapé
	Lake laké	Namee	Baronee		Tane	Ang
	Ampela	Jah	Makoonraye		Huaheine	Poh
	Appa	Bapa	Ambo		Medooa tane	Enteeah
	Nemay	Mau	Endo		Med. waheine	Ncha
	Ranowia	Noko	Sadje		Teine	Suotee
	Loohah	Jahé	Ooloo		Oopo	Toucah
	Mefloo	Nana	Mattaye	Madda	Matau	Buru
	Oorong	Meenee	Eengana	Sivanga	Eahoo	Peeh
	Vooloo	Jahé	Gummanna	Row	Eraowroo	Toumo
	Takoolaka		Dowcheeles	Cavaranga	Papara	Sheepay
	Keeboo	Araliba	Allay	Dullo	Eoboo	Pueto
	Feletanan	Tanaraga	Tapha-lamay	Wilaalea	Ereema	Tehoo
	Toongoota	Eetee	Anjengoa	Baibo	Awy	Calhoot
	Ahanzoo	Moortana	Cabadja	Cova	Aihoo	Sanh
	Hareeanroo	Oofa	Affo		Mahana	Icet
	Harce Vah	Gamoo	Bunnee-ee		Eaoo	May
	Phootee	Bootee	Pootee		Tea	Pay
	Minetee	Metam	Lotong	Bulla	Ere ere	Oh
	Sooah	Row	Macleching		Myty	Hoh
	Mattee	Hoomoo	Mattee		Matte	See
	Aphoo	Atta	Appce		Wahaa	Whoey
	Rano	Eera	Oaaye		Avy	Choe
	Tana	Tano	Bunoo		Fenooa	Toh
	Ooloo	Anoonoo	Taow	Momonne	Tata	Lang
	No Word	Oouta	Calookoo		Taro - Aree	Ea
	Neepee	Oafce	Affunna		Enechee	Chceke
	Lambo	Baye	Babee	Vavee	Booah	Tee
	Voorong	Olo	Manoomanoo	Dolula	Manoo	Chceow
	Atoodce	Affowa	Tello	Dullo	Aouero	Noocy
	Phceah	Appce	Iooco-edja	Nudoo	Eya	Hee
	Varay	Rcia	Bra	Atree		Bee
	Oovee	Jammais	Oobee		Oomarrak	Whunchce
	Maffoo anroo	Ooatoo	Matangaffo		Mahana	Jettaou
	Voolan	Ooroo	Oulang	Wurroo	Marana	Gooy
	Vintan	Eepce berray			Efaitoo	Schay
	Zaho	Auec	Eedee		Waow, Mee	Goca
	No word	Eco	Eey-na	O	Ai	Hoh
	Aveeah	Maoo	Sakomaye		Harre mai	Layeno
	Dernakaree		Allah tallah		Eatua	Teehn tay

Examples of words in the Sumatran and Neighbouring Languages corresponding in sound

Pinay Achenese Batta Neas Rejang Javanese	Mattee Matray Mahtay Mate Mattooe Mattee	Die, Dead	Otaheite Garageco Madagascar Bugguefs or Macassar	Matte Mattee Mattee Mattee	Malay Achenese Batta Neas Rejang Lampoon Javanese
Malay Achen. Batta Rejang Lampoon Javan.	Matto Matta Mahtah Mattey Matrah Matta	Eyes	Otaheite Savu Garageco Bugguefs Easter island Marquesas Amsterdam N. Zealand Malicolo	Matta Madda Matta Matteye Matta Matta Matta Maitang	Malay Achen. Batta Neas Rejang Lampoon Javan.
Malay Achen. Batta Neas	Babbee Booy Babee Bavee	Hog	Otaheite Marquesas Amsterdam Savu Mongeraije Malicolo Tanna	Booa Booa Booacha Vavee Baye Brooas Boogas	Malay Achen. Batta Neas Rejang Lampoon
Batta Lampoon Javan.	Manook Manoo Mano	Bird, Powl	Otaheite Easter Island Amsterdam Tanna N. Caladonia Bugguefs	Manoo Manoo Manoo Manoo Maneck Manoo manoo	Malays Achen. Batta Neas
Rejang Neas	Neole Bunneco	Coconut	Amsterdam Chinefe N. Caladonia	Eeco Eca Neco	Malay Batta Neas
Malay Neas Rejang Javanese	Eecun Ecagh Ecwah Eewah	Fish	Otaheite Easter Island N. Zealand Amsterdam Madagascar	Eya Eeka Eeka Eeka Pheeah	Neas Lampoon Malay Malay
Malay Achen. Batta Lampoon	Ayer Eer Ayck Wye	Water	Bugguefs Mongeraye Otaheite Easter Island N. Caladonia	Ooaye Era Avy Eyy Oore	Malay Malay Javan. Malay
Malay Neas Rejang	Oobee Goore Ouby	Potatoes and Yams	Otaheite Easter Island Amsterdam N. Caladonia Madagascar	Eoobe Oobe Oobe Oovee	Malay Neas Malay Achen. Neas Rejang Lampoon Javan. Malay
Malay Lampoon Javan.	Orang Oooloon Wong	Man Person People	Chinefe Madagascar	Lang Ooloo	Malay Achen. Neas Rejang Lampoon Javan. Malay
Achen. Lampoon	Appooy Aphooy	Fire	Madagascar Chinefe	Aphoo Whoote	

Vol. VI. Tab. II. to face p. 154.

and signification with others in places remote from thence.

Duo	Two	Otaheite	Erooa
Dua		Savu	Rooe
Duo		Madagascar	Dooce
Dembooa		Bugguefs	Dooa
Dooy		Easter Island	Rooa
Rowah		Marquesas	Aooa
Roro		Amsterdam	Eooa
		Tana	
Teego	Three	Otaheite	Torheo
Tloo		Savu	Taloo
Toloo		Madagascar	Telloo
Taloo		Bugguefs	Tulloos
Telou		Easter Island	Toroo
Tulloo		Marquesas	Atoroo
Tulloo		Amsterdam	Toroo
Ampat	Four	Otaheite	Atta
Past		Savu	Uppa
Opat		Madagascar	Ephat
Oopha		Easter Island	Faa
Mpat		Marquesas	Afaa
Ampah		Malicolo	Ebat
Toojoo	Seven	Otaheite	Aheetoo
Toojoo		Savu	Peetoo
Pailoo		Madagascar	Pheetoo
Pheetoo		Mongersy	Pheetoo
		Marquesah	Acheetoo
Sambilan	Nine	Otaheite	Aeeva
Seeah		Savu	Saio
Sewah		Madagascar	Seevaa
		Easter Island	Heeva
Adooloo	Egg	Savu	Dulloo
Tulloy		Bugguefs	Tello
Papateel	A Tool	N. Zealand	Patoo patoo
Telingo	Ear	Malicolo	Talingan
Tapa	Sole of Foot	Otaheite	Tapooy
Eerung	Black	Otaheite	Ere ere
Momotong	Cut	Otaheite	Motoo
Paya	Fatigued	Otaheite	Paya Faeca
Taloo	Belly	Savu	Dulloo
Bray	Rice	Savu	Arre
Breecagh		Madagascar	Varay
Booragh		Bugguefs	Bra
Bias		Chinefe	Bes
Becaa			
Braa			
Bapa	Father	Otaheite	Papa





acquaintance with the continental tongues. I am desirous however of contributing a few grains to the mass of literature; leaving to others whom chance or curiosity may lead into the same road to add to and work up the materials. It may possibly then be found that Tartary, that great *officina gentium*, has supplied the south eastern archipelago with inhabitants. A knowledge of the original Siamese, Laos, Cambodian and Peguan languages, as these nations lie in the intermediate space, would present the readiest clue to a discovery of that kind. But here I am in the dark. My information leads but a small way, and can only boast the merit of genuineness, being taken from the mouths of the natives themselves (except in the instances of Savu and Otaheite) and not from books. The only general inference we can draw on this head, is, that from Madagascar eastward to the Marquesas, or nearly from the east coast of Africa to the west coast of America, there is a manifest connexion in many of the words by which the inhabitants of the islands express their simple ideas, and between some of the most distant, a striking affinity. The links of the latitudinal chain remain yet to be traced.

WITH respect to the resemblance of the Sumatran tongues among themselves, I imagine most will deem it such as to pronounce them dialects only; and on this, Sir, I shall be happy to hear your opinion and those of your ingenious friends; for I am far from thinking the general resemblance so decided as to put the point beyond dispute. The circumstance of an alphabet character peculiar to each would seem to prove that their origins were unconnected, and that the likeness has been produced by the incorporation of words borrowed from each other. It is certain that they conceive thus of themselves; that they do not in the least comprehend each other's discourse; that their persons are different, and that their manners and customs are in

many the most striking particulars as unlike as those of the most distant nations. But on the other hand it will be argued that the resembling or common words are radical and such whose correspondent ideas must have existed and been described prior to all intercourse with either remote or neighbouring people; as will appear from an inspection of the comparative specimens, and consequently that the dissimilarity, not the similarity, must have been induced by degrees. If we admit this last supposition and observe that in the written character, particularly of the Batta and Rejang languages, there is not the most distant relation either of form or order, it will follow that this art of representing our thoughts by visible signs took its rise among these people after the period of their separation; that it must have been with respect to each of them entirely original, and that it was rather a work of premeditation, in some measure perfected by the first designer, than the half begotten offspring of chance, licked into shape by the slow efforts of time and use. Indeed the Rejang writing is so simple, uniform, and perspicuous, both in regard to the form of the characters and disposition of the syllables, that from this evidence alone I should not hesitate to pronounce it the design and execution of one head and hand. This hypothesis clashes with the opinion generally received of the formation and progress of written language, whose steps have been supposed vague and indeterminate. There are here no traces of the hieroglyphic figures which some have asserted to be the parents of letters, producing them by a gradual corruption: an idea which the complex, and seemingly fanciful, Chinese character gives strong support to. But nature in the contour of her productions, of which the hieroglyphics were imitations, employs only curve lines, whereas the letters of the Rejang alphabet are entirely composed of angles, for the most part acute, variously combined. The latter might degenerate

nerate into the former, but to admit the reverse were absurd. There needs only inspection to be satisfied that those letters are now, I mean with respect to their general form, what they were from the beginning.

For tracing the connexion of the words in the accompanying specimens, it is necessary to remark, that there are several letters or simple sounds, which, though to our organs they seem distinct, are often confounded and transposed in rude languages. These are probably such as are produced by conformations of the mouth nearly similar, and a difference in such sounds, on a comparison of words, is not to be esteemed essential, though it may occasion a considerable alteration, if two or more happen to concur in the same. The change is still greater when a second corruption of the same letter takes place, on a word's passing into a third language; though to a person tolerably versed in them there is not a doubt of the derivation and analogy. For example, *Eedong*, in Malays, becomes *Eerong* in Javanese and *Oorong* in the Madagascar language: and *Duo* in Malays, is in Otaheitian *Rooa*, in Savuan *Rooe* and in Mongeraye *Loolaye*. The letters usually confounded are L and R, P and F, D and T, D and R, B and V, Oo and R; besides many others in which the articulation is less marked.

I SHALL only further observe, that though the very wide extended correspondence of the words denoting numbers be a striking circumstance to an investigator of these subjects, it cannot I doubt be admitted as any presumptive proof of a common origin of the nations making use of them. In some islands, as those of Easter and Otaheite, these terms are found to resemble, though no others in the two tongues have the smallest affinity. Counting, however simple a business it may appear to us, who are used to such powerful combinations of numbers, is matter of science, and has most probably been  
adopted

158 *Mr. MARSDEN on the Sumatran Languages.*

adopted as an improvement by one nation from another. Men may exist long together without finding it absolutely necessary to express these ideas, and in the mean time the improvement of navigation or a fortuitous occurrence of events may convey to them the lights of their more civilized neighbours.

I SHOULD apologize for troubling you with my crude opinions on a subject which you are capable of digesting in a much more satisfactory manner; but I am willing to prove myself by the goodness of my intention not altogether unworthy the notice of the President of the first literary society in the world.

I am, Sir,

with much respect,

your most obedient humble servant,

March 5, 1780.

WILLIAM MARSDEN.

XXII. *Observations*





RECOLLECTING that a gentleman of my acquaintance had shewed me in his journal a copy of an historical painting in figures which he had taken from a tree in North America, I wrote to him, and have been favored with the annexed sketch and interpretation of it.

He says that he found the marks on a tree on the banks of the Muskingham river; that he does not certainly recollect of what species the tree was, but thinks it was a sugar maple; that the bark was peeled off on one side of the tree, about a foot square, and these characters painted on that part with charcoal and bear's oil; that black is the color which signifies anger or war; that there is nothing very elegant in their paintings, the end of the finger, or the point of a burnt stick, being the only pencil they use; that this was the performance of Wingund, an Indian warrior of the Delaware nation, when going out to war, and that it was interpreted to him by captain White-eyes, a Delaware chief, as follows:

THE figure number 1. is the imitation of a river turtle, which is the emblem or badge by which his tribe is distinguished.

N° 2. is his personal mark or character. The Indians choose some one in their youth, and retain it without alteration to their death.

N° 3. is meant for the sun.

THE ten horizontal strokes under it shew the number of times he had been at war, that is, the number of expeditions he had been upon. They do not reckon by campaigns like the Europeans.

THE figures under the turtle shew the number of scalps and prisoners he had taken at different times, of which those marked N° 4. are men's scalps.

N° 5. women's scalps.

N° 6. men prisoners.

N° 7. women prisoners.

THE

THE number of scalps or prisoners taken in each expedition are set opposite to it, viz. The first time he went to war he was unsuccessful, taking none; the second time he took one man's scalp; the third time he took a woman's scalp, a man's scalp, and a woman prisoner.

THE figure under the turtle, N° 8. is intended for a fort which he was at the taking of; he believes it was one of the small forts on lake Erie which was surprised by the Indians about 1762.

THE fort N° 9. is intended for Fort Detroit, which was besieged by the Indians in 1762 under the command of the famous Pontiac, but bravely defended by major Gladwin. The other, N° 10. is Fort Pitt, with the town, N° 11. and the Monongahia and Allegheny rivers; which was besieged by the Indians about the same time.

THE space between the sixth and seventh horizontal strokes, shews that he did not go to war for some time.

THE twenty-three strokes at bottom shew the number of warriors he had with him at the time he made the war-marks; their inclining to the left, with their backs to the sun, shews that they were going to the northward.

HE says that the marks they make on their return are generally done with vermillion, which is a peaceable color, and shews that their anger is no more. At those times they put the scalps and prisoners in the rear of their men, in this manner \\\ \x x, and if they had been out two moons and an half they would put two round black or red spots on the right of the prisoners, and a semicircular one for half a moon. Their loss they would express by making horizontal strokes between the prisoners and the moons in this manner \\\ \x x ≡ ●●●

THE Delawares are divided into three tribes, the turtle, the wolf and the eagle tribes. Each makes use of their respective

162 *Mr. BRAY on the Indian method of Picture-Writing.*

badge, and it would be looked upon as an unpardonable crime for one tribe to forge or make use of the badge of another. Every nation differs something in the manner of describing their war-atchievements.

If the above will be worthy the attention of the Society, I beg you to lay it before them, and am, Sir,

Your most obedient

humble servant,

**WILLIAM BRAY.**

**XXIII. Observations**



XXIII. *Observations on the Origin and Antiquity of Round Churches; and of the Round Church at Cambridge in particular. By Mr. James Essex, F. A. S.*

Read May 24, 1781.

**T**HOUGH there are but few churches in England built on a circular plan, it has generally been supposed that most of them were built by the Jews for Synagogues; and this opinion has long prevailed at Cambridge, because the round church, a plan of which is herewith annexed, is situate in a part of the town commonly called the Jewry, in which place it is generally believed that the Jews lived together, as they formerly did in that part of London called the Old Jewry; but as it does not appear from any good authority that the Jews ever occupied this particular part of the town, we must seek some better reason for its being called the Jewry. As the Jews were dispersed into various parts of the world soon after the destruction of Jerusalem by Titus, it is probable that some of them found the way into Britain while it was subject to the Romans, though we have no certain account of their appearing here under that denomination before the time of William the Conqueror, who gave them great encouragement. He first permitted them to settle in London, and dwell together in that part of the

city called the Old Jewry; but increasing under the protection of that prince and of his son William Rufus, they were permitted to settle in other parts of the kingdom, and soon chose for their residence the principal trading towns, such as York, Lincoln, Norwich, Northampton, Cambridge, and others. In some of these towns they built Synagogues, and carried on the business of bankers by letting out their money upon interest to merchants and others concerned in trade. They are supposed to have settled in Cambridge in the time of Henry the First [a], it being at that time a large town well situated for carrying on a considerable in-land traffick with the counties of Huntingdon, Bedford, Norfolk, Suffolk, and other places, by means of the rivers Grant and Ouse, which at that time were navigable for vessels of considerable burthen to several wharfs on the west side of the town. Thus Cambridge from the natural advantage of its situation became a trading town, to which king Henry the First added several valuable privileges for encouraging it. He granted the fee farm of the town (then in his own hands) to the burgesses of Cambridge, to be held of him in chief, they paying into his exchequer the same farm which the sheriff used to pay: to this charter he added another in which he ordered that no vessel should unlade, or pay toll for its goods at any wharf in Cambridgeshire, but in Cambridge. These privileges would naturally extend the commerce of the town, and encourage strangers to settle there. Though the Jews at that time were esteemed no better than usurers, they were considered as a necessary people, and useful to merchants as bankers, in those places where commerce was improving; for which reason, they were placed under the particular jurisdiction of one principal officer appointed by the king, called the *justicer* of the Jews, whose business it was to protect them in their just rights, and

[a] Fuller's History of Cambridge.

decide all suits betwixt the Christians and them. At this time therefore it is probable they were permitted to settle in Cambridge, where they were allowed to purchase a piece of ground, on which they built themselves a Synagogue, and houses to dwell in, where they lived together as in London and other places upwards of a hundred years. But after the death of king John they met with little encouragement in England. Henry the Third was a covetous prince, and the Jews were grown rich; their wealth excited the envy of many, and pretences were easily found to strip them of it. The king, more covetous than just, no longer protected them; by the laity they were accused of crimes against the state, by the clergy of crimes against religion. The first charged them with forgery, clipping, coining, and usury; the latter, of enchantment, and crucifying the children of Christians in contempt of the Christian religion [b]. These crimes, whether true or false, were sufficient to excite a general clamour against that unhappy people, and afforded the king a fair opportunity of seizing their wealth, and his successor an excuse for expelling them from his kingdom, when they had nothing left to seize.

WHETHER any particular crimes were laid to the charge of the Jews residing in Cambridge does not appear; but we find king Henry in the year 1224 seized their effects and confiscated their estates. He sold the house of one Benjamin, near the Guildhall, to the corporation for a common prison [c], and in their Synagogue which stood near it was placed a cell of mendicant friars [d], which his successor Edward the First removed.

[b] Mat. Paris Hist. p. 644.

[c] Primo receperunt Cantabrigiae fratres villae burgenses, assignantes eis veterem synagogam, quae erat contigua carceri. (Leland's Collec. vol. III. p. 342.) Anno Reg. 8 Hen. III. 15 October. (MS. Baker, vol. XXV. p. 8.) for forty marks, and a rent of one mark yearly to the crown, and two shillings to the chief lord of that house.

[d] Tanner's Notitia Monastica.

to the place where Sidney Sussex college now stands. Some remains of their old house may yet be seen in the corner house leading to the Guildhall.

AFTER this time the Jews could have no settled habitation in Cambridge [e], and while they had it is evident from what has been said, they did not all live in that part of the town called the Jewry; for their Synagogue and some houses adjoining were situate near the Guildhall, a situation more convenient for their business, being in the centre of the town, in the market place between the principal places of traffic for corn and other merchandize; where it is probable they were permitted to build before the year 1200, when king John founded the corporation, and granted them a merchants guild.

It has long been a common opinion, that the Synagogues of the Jews were anciently built in a circular form [f]; but whence this notion arose I cannot certainly say. Their temple at Jerusalem was not of that form, neither was the tabernacle of Moses, nor do we find the modern Jews affect that figure in building their Synagogues. It has however been generally supposed that the round church in Cambridge, that at Northampton, and some others, were built for Synagogues, by the Jews while they were permitted to dwell in those places; but, as no probable reason can be assigned for this supposition, and I think it is very certain that the Jews who were settled in Cambridge, had their Synagogue and probably dwelled together in a part of the town never called the Jewry, so we may reasonably conclude, the round churches we find in other parts of this kingdom, were not built by the Jews for Synagogues, whatever the places may be called in which they stand.

[e] Henry III. granted them annual protections while they continued here.

[f] Fuller's Hist. Camb. p. 4. Parker, p. 126.



WHEN the Christian religion was perfectly established in the Roman empire, the Pagan temples were very numerous in Rome, and several of them were converted into Christian churches; but the greatest part of them being too small for that purpose, were demolished, and the materials applied in erecting those churches which Constantine caused to be built at that time.

THE temples built by the Greeks and ancient Romans varied little from their original form, though they differed in magnitude and ornaments; and it was not till the Roman empire began to decline, that they introduced that variety of forms which we find in many of their plans. Among the temples built in the latter ages of the empire, some were *circular*, and being very large and convenient, were given to the Christians to be converted into churches. Among those, the temple of Faunus built by the emperor Claudius, being the largest of its kind, was dedicated to God by pope Simplicius I. about the year 470, by the name of St. Stephen [g]: but the Pantheon, the most beautiful circular temple in Rome, was not repaired until the year 607, when it was dedicated to the Blessed Virgin by pope Boniface IV. and three years after, to all the saints by Gregory IV [h].

THE churches built at Rome in the fourth century were of various forms; but in the largest they generally imitated the Basilicae. Such were the Lateran, the Vatican, and several others: but they built some in a *circular* form. Among those was the church of St. Agnes without the *porta Viminalis*, which some suppose was built for a temple of Bacchus, but others with more probability attribute it to the emperor Constantine.

[g] Antoine Desgodetz, *Edifices antiques de Rome*. Il est à présent appelé *Saint Etienne le rond*.

[h] Desgodetz.

HELENA the mother of Constantine being as zealous in promoting the Christian religion as her son, visited Jerusalem, where by his assistance she built several magnificent churches, in such places as were signalized by the most remarkable events relating to the life and sufferings of our Saviour and his apostles, some of which still remain to commemorate those events, and perpetuate the piety and munificence of that princess. Among the churches which they built in the Holy Land few we may suppose are now standing; though some may have been rebuilt upon the original foundations, and others may yet retain some remains of the ancient superstructures. Bede [i], speaking of the church of the resurrection or holy sepulchre at Jerusalem, describes it as being a large round church, which differs very much from the present building according to the plan of it published by P. Barnardino about the year 1619; but this difference will be accounted for, when we consider that the church built by Constantine was standing when Bede wrote, but had undergone many changes before P. Barnardino made a plan of that which is now there. The church described by Bede had two rows of pillars, which formed two circular porticos within the walls, somewhat like the temple of Faunus at Rome, though not so large; but the present building has only one portico round about, and one circular row of pillars. I imagine the outer walls of the present church are the same which Constantine built, but that the pillars of the portico, stand upon the same foundations on which the outer row of pillars in that church stood, though they are placed closer than they were in the first plan, because the inner row being taken away to enlarge the area about the Holy Sepulchre, they must have a greater weight to support.

[i] Resurrectionis Dominicae rotunda ecclesia tribus cincta parietibus, duodecim columnis sustentatur. (De Locis Sanctis cap. 2.)

THE empress *Helena* built a church on Mount *Olivet*, in memory of our Lord's Ascension. *Bede* [k], in his description of this church, calls it a large *round* church, with vaulted porticos; but the church which was standing in *P. Barnardino's* time, was a small octangular building on the outside, but circular within, without pillars, or porticos, and consequently cannot be the same which was there in *Bede's* time, though it may be built upon part of the foundations of *Helena's* church, and the pillars which are now at the external angles, with the eight arches, may be the remains of the vaulted portico mentioned by *Bede*, which being destroyed by time, or by the Barbarians while Jerusalem was in their possession, was never rebuilt, but when it was repaired, they contracted it to the present dimensions, by pulling down the outer walls, and building new walls within the pillars and arches which formed the portico of the old church.

JERUSALEM being taken by the Saracens in the year of our Lord 637, the repairs of these churches were of course neglected, until the year 813, when *Charlemagne*, by the permission of the calife *Aaron*, rebuilt the church of the Holy Sepulchre, under the inspection of *Thomas*, Patriarch of Jerusalem, who probably contrived the present plan, and enlarged it, to include several adjoining buildings. The East end I take to be of his building, containing the semicircular tribune; but the intermediate part between it and the sepulchre is more modern, and might be rebuilt when the church was restored in the year 1049, after it was defaced by the Saracens towards the end of the tenth century.

CHARLEMAGNE, who was a great promoter of religion, and encourager of learning, soon after he became emperor of the West, chose *Aix le Chapelle* for the place of his usual residence, and

[k] *Ecclesia rotunda grandis, ternas per circuitum cameratas habet porticus desuper testas. De Locis Sanctis, Cap. vi.*

built there a magnificent church, which was dedicated to the Holy Virgin by pope Leo the Third, in the year 804, in the presence of the emperor, and 365 archbishops and bishops. This church was built on a *circular* plan; it was supported by columns of marble and porphyry, which were brought from Rome and Ravenna; the gates were of brass, and many of the ornaments within were of gold and silver. This edifice was destroyed about 27 years after it was built, by Godfrey and Sigisfrid, dukes of Normandy, who ravaged the country, desolated the city, and destroyed the imperial palace and church. The city and church were rebuilt by the emperor Otho the Third, who was crowned there in the year 983. Though the present church has some part of it of a circular form, it is not probable that any part of Charlemagne's church remains, though great part of that built by Otho may, and as it is circular, it may be built upon the old foundations. The church of St. Sophia at Constantinople was first built by Constantine, which, being covered with a hemispherical dome, is by Bede [7] called a Round church, though it is not of that form within. Historians mention other round churches built in the same age; but have left us no descriptions of them. It is evident, however, from the examples above-mentioned, that many round churches were built by the Christians in different parts of the world, in the fourth and fifth centuries; and as that which covered the Holy Sepulchre at Jerusalem was built in that form, Charlemagne might be induced to build his church at Aix la Chapelle in that manner, in imitation of it.

AFTER the death of Charlemagne, Jerusalem fell again into the hands of the Infidels, who kept it until Godfrey of Bouillon,

[7] Rotundo schemate a fundamentis constructa & concamerata. De Locis Sanctis, cap. xix.



who commanded the Christian armies in the first croisade, recovered it, and was crowned king of Jerusalem in the year 1097: but Godfrey died in the year 1100; and after his death the Saracens continually molested his successors, and plundered the pilgrims who went to visit the holy places about Jerusalem. For their protection the Knights Templars were instituted, in the year 1118; and the care of the Holy Sepulchre being given to them, apartments were allotted them near the church, where they lived in subjection to the patriarch, like regular canons, having renounced property, and made a vow of celibacy and obedience. At first they were but nine in number, until Pope Honorius the Second gave them a rule, and assigned them a habit. Their numbers being then unlimited, they amounted to about 300 in the convent at Jerusalem only, besides those who were settled in various parts of Christendom, where they acquired vast revenues: but in the year 1134 all the knights who were in the convent at Jerusalem being slain by the Infidels [m]. It is probable those who were settled in various parts of Europe began then to build round churches, resembling (as well as they could) that which stood over the Holy Sepulchre.

At this time the Jews being very numerous in England were permitted to build synagogues in the towns where they were settled; but at a time when the Church of the Holy Sepulchre was held in the greatest esteem by Christians in general, and by the Templars in particular, we cannot believe they would be permitted to build them in that form, had not their natural aversion to the Christian Religion prevented their imitating a building which was intended to commemorate an event which they wished to have forgotten; and from hence we may conclude, that none of the round churches remaining were built by them;

[m] Interfecti sunt omnes milites Templi Domini. M. Paris, p. 73.

and if ever they built their synagogues in that form, it was before the destruction of Jerusalem by Titus.

THE round churches we have in England were some of them built by the Templars themselves; as that in London, in the year 1185, and dedicated (by Heraclius, Patriarch of Jerusalem) to the Virgin Mary. They built some in places where they had large estates, as at Baldock, in Hertfordshire [n], and several others we have no account of; most of which have been rebuilt, or were originally in the common form: but round churches were sometimes built by private persons, and given to the Templars. The round church at Little Maplested, in Essex, near Castle Hedingham, was dedicated to St. John at Jerusalem, and given to the Templars by Juliana, wife to William son of Audelin, steward to Henry the Second.

BESIDES the churches erected by the Templars, or built for them by their pious benefactors, it was customary, during the croisades, to build parish churches in honour of the Holy Sepulchre [o]; and as parishes take the names of their churches, from thence we have the church and parish of St. Sepulchre, in London, and other places. But as it was usual to dedicate them in commemoration of the Holy Sepulchre in Jerusalem, so in some places, the church is called St. Sepulchre, and the parish the Jewry: and as these churches were built by the Templars, or persons concerned in the Croisades, most of them were made circular, in imitation of that at Jerusalem; such is the round church in Cambridge, and that at Northampton, and if there are others of this name, but of a different form, it is pro-

[n] Chauncey, p. 382.

[o] There is a monastery of the Resurrection about 30 miles from Moscow, called the New Jerusalem, because built upon the model of the church of the Holy Sepulchre by the patriarch Nicdon. Dr. King's Rites and Ceremonies of the Greek Church in Russia, p. 33. Constantine built a church at Rome, called Sessorian Basilica, five *Ecclesia S. Crucis in Hierusalem*. Ciampini de Sacris Aedificiis, p. 116.

one of them  
in the  
church

1777

1778

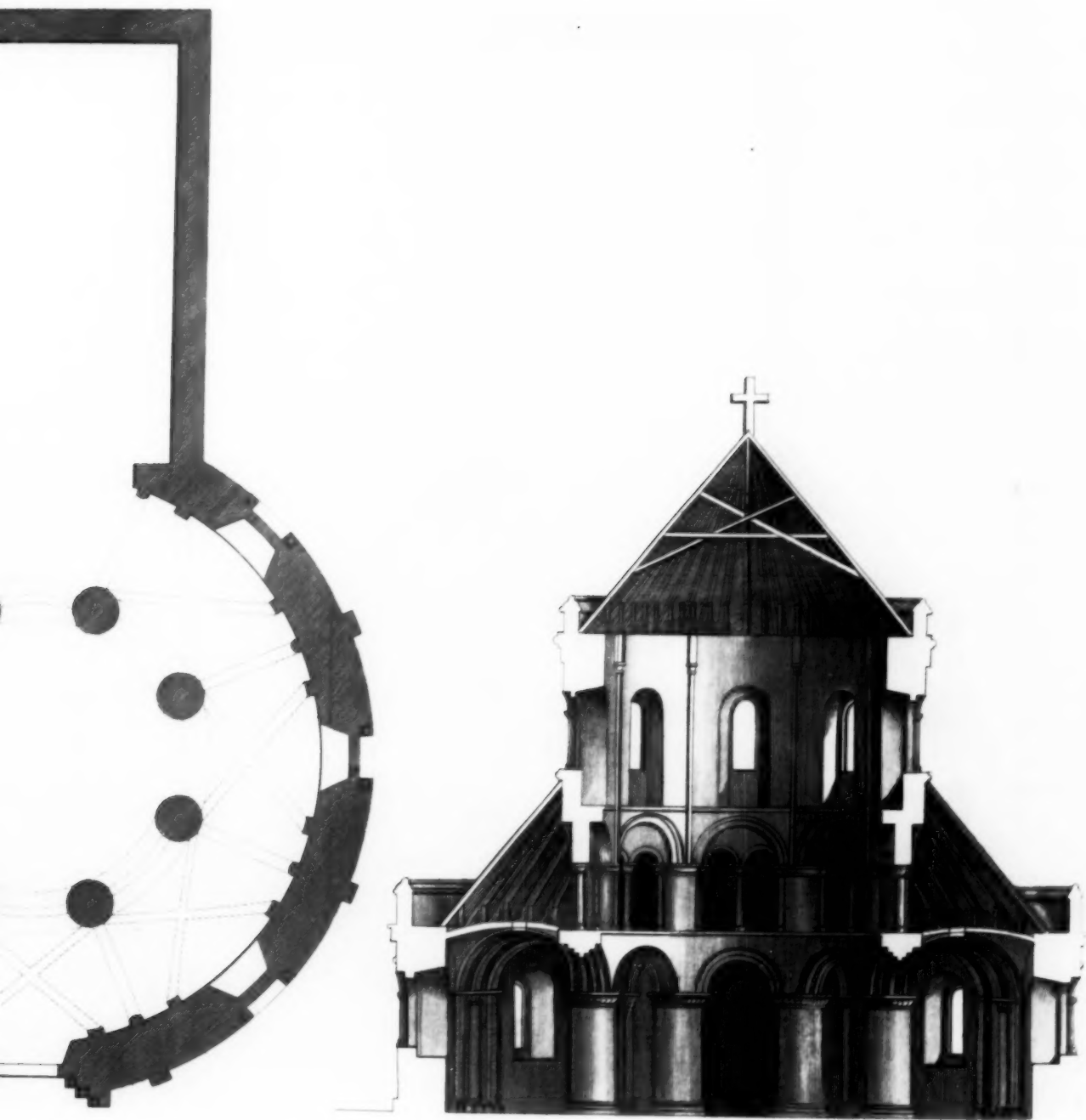
common  
by private persons, and  
church at Little Mableton, in  
as dedicated to St. John the Baptist  
late by Julius, wife to William  
y the second  
erected by the Templars, and  
which, it was customary, the  
churches in honour of the  
make the names of the  
in Jerusalem, the  
church, and the par  
only by the Templars  
most of them were  
vulgar; such is the  
Northampton, and it  
different form, it is pro-

about 30 miles from Moscow,  
model of the church of the Holy  
the and common as the  
a church at Rome called  
that, Campus de Jacin  
table



*The Church of the Holy.*





*Sepulchre in Cambridge.*

20 30 40 50 feet



*The*

bable they have been rebuilt since their first dedication. Thus we may reasonably account for the building of those round churches which stand in places called the Jewry, without supposing they were built by the Jews for synagogues; it being very improbable that they would build them in that form, or that the Christians would permit them to do it.

THE round church at Cambridge (a plan of which is annexed [p]) is properly called the church of the Holy Sepulchre [q] in the Jewry; and from thence arose the vulgar opinion that it was a Jewish synagogue, and that the Jews lived there: but having shewn that the Jews had their synagogue, and lived in another part of the town, we may conclude that this church was built by the Templars, or by some person concerned in the Croisades. It will be easier to ascertain the age, than to tell who was the founder of it: for the age may be nearly ascertained by the style of the building, which, notwithstanding the alterations and additions which have been made in it, has so much of the original left, that I have been able to trace all its parts, and represent it in the state which the builders left it: and from thence I may venture to pronounce that it was built in the reign of Henry the First, or between the first and second Croisades; and is, I apprehend, the oldest church of this form in England, being built before the Templars became masters of the vast property they had afterwards in this and other parts of Europe.

WE have no certain account that the Templars possessed any part of what is called the Jewry; but that they did not possess the whole in the time of Edward the First is certain; for in the year 1276, the fourth of his reign, one Robert Fulburn gave

[p] Plate XX.

[q] In 1255 it was valued at 1 M. by the name of *Ecc. Sti. Sepulchri*, in a Taxation made of all ecclesiastical and temporal estates, according to their true value throughout all England.

some stone houses opposite St. Sepulchre's church to the canons of Bernwell [q]. This was 37 years before the order of Templars was dissolved; therefore could not have been part of their habitations: of those houses there is now nothing remaining.

THERE was formerly in this parish an ancient house, called *Bede's house*; in which some have supposed venerable *Bede* lived and studied [r]. But besides the improbability, that a common dwelling-house built in the seventh century should be standing in the sixteenth, it may be doubted whether *Bede* ever lived in Cambridge. I have no doubt, however, of there having been a house so called, which might be built when the church was, for the reception of Beads-men, to pray for those who were engaged in the wars for recovering the Holy Land from the Saracens; and therefore not improperly called the Beads-house; which name it might retain some centuries after the use of it was forgotten, and the Beads-house would be easily mistaken for *Bede's House*.

As the church was built within a few years after the first establishment of the order of Templars, we cannot suppose it was built by them, but by some person who had been in the first Croisade, or, intending to engage therein, built it, and appointed a number of Beads-men to pray therein for the success of their arms and safe return: and as churches of this sort were sometimes built by private persons, and given to the Templars; by this means the advowson of it, and the Beads-men's house, might come into their possession [s], if it ever belonged to them.

[q] Parker's History of Cambridge, from a MS. in the Cotton Library.

[r] B. twixt St. John's College and the Round Church, or St. Sepulchre's. Fuller's Church Hist. p. 98.

[s] The Baptistry at Pisa in Italy may be ranked among the Round Churches, and was begun about thirty years after the church at Cambridge, and finished in the year 1160, by Deotisalvi, an eminent architect of that age. Josephi Martini Theatrum Basilicæ Pisanae.



THE parish called *the Jewry* is but small, and it seems was originally taken out of All Saints, the advowson of which belonged to a small Benedictine Nunnery in the adjoining parish of St. Radigund, to whom, in the year 1122, Pope Honorius the Second granted the impropriation of the Rectory of St. Clement's [1], probably as a recompence for what was taken from the parish of All Saints when St. Sepulchre's church was built, which was about that time, and when he appointed a habit for the Templars, and gave them a rule for their government.

IN the year 1134, Henry Frost, a burgefs of Cambridge, founded an Hospital in the same parish, and dedicated it to St. John the Evangelist [u], which being enlarged by Nigellus Bishop of Ely, the nuns were recompenced by a small rent, paid out of some grounds lying in St. John the Baptist's parish [x]; but by these foundations the parish of All Saints was almost all taken away, and the nuns, who were poorly endowed, suffered very much, until Malcolm IV. king of Scotland, at that time Earl and Lord of all the town of Cambridge, gave them ten acres of land adjoining the nunnery for their better support; he likewise united the parish of St. Radigund to the remains of All Saints, and gave that church to the nunnery. Since that time, which was in the year 1160, the two parishes have been called by the name of All Saints, and the church is now called *All Saints in the Jewry*, and formerly *All Saints near the Hospital*, to distinguish it from All Saints near the Castle; it being near the Hospital of St. John the Evangelist before mentioned [y], but not properly in the Jewry [z].

[1] Parker's Hist. Camb. p. 116.

[u] Tanner's Notitia Monastica, p. 43.

[x] Archives of Jesus College.

[y] Now St. John's College.

[z] In a taxation roll, 1255, it is called *Om. Sanctorum juxta Hospitale*.

AFTER the order of Knights Templars was dissolved in the year 1313, the advowson of St. Sepulchre's church was given to the priory of Barnwell [a], at which time (as I apprehend) the church was raised a story higher, for the reception of bells, and the chancel was then added, and dedicated to St. Andrew [b], the patron of Barnwell-priory, in which the presentation continued until that was dissolved by Henry the Eighth, and is now in the gift of the Bishop of Ely.

I THINK there can be no doubt either of the time when this church was built, or that they who built it intended it should resemble the church of the Resurrection or Holy Sepulchre in Jerusalem; and I must observe, that as far as can be judged from the descriptions given of that church, this is the best copy we have of it in England: but a perfect resemblance must not be expected, where the smallness of one compared to the other would make an exact imitation no better than a large model, which could be of no use but to amuse the curious. This church, in its present state, appears under a variety of disadvantages, arising from the many alterations and additions it has undergone since it was first built; but that the real design of the architect may be seen, I have (as far as my knowledge of the several styles of architecture extends) endeavoured to restore what has been lost or changed, and remove what has been added. But notwithstanding the drawings I have made [c] are from an actual survey, they will appear very different from the present church, if compared with the building itself by those who are unacquainted with the peculiarities of each style. In its present state it is a story higher

[a] As this church was not taxed among the spiritualities belonging to the priory of Barnwell in the year 1297, twenty-two years before the order was dissolved, it probably did not belong to them until after the year 1313; but it is uncertain to whom it belonged before.

[b] Blomfield's Collect. Cantab.

[c] See pl. XX.

than the architect intended it should be. This addition was made for the reception of bells in the reign of Edward the Second, and all the windows (except one now out of view) were then altered to give more light. The present chancel was likewise added at that time, and the ornaments about the door were defaced and partly hid by a wooden portal; but, to compleat the deformity, a modern building has been added on the north side of the chancel. All these additions are omitted, and the alterations restored in the plan and elevation. But the inside is as much deformed as the outside: a gallery has been built just above the arches, which reduces the circle to a square, and by its projection hides the pillars and arches of the upper portico. Pews, which are no ornament to any church, and never intended in this, fill the area below, and not only incumber the pillars, so that they appear much heavier, and more out of proportion, than they are, but destroy the real form and apparent magnitude of the building; all these are omitted in the section, where the windows and other parts are drawn as they were originally, not as they are now, that those who are curious in the antiquities of those times may see what sort of building it was, and the true form which the architect gave it.

FROM the present irregular appearance of this and many other churches which pass under the general appellation of Gothic, it is natural to conclude, that the architects in those days had no idea of proportions or convenience, nor any rules to direct them in the formation of their plans or execution of their works, but that all they did was the effect of meer chance; yet, if we impartially examine this building cleared of all the incumbrances which have been added to it, in different ages, we shall find it once was regular, and we may believe the person who planned it was not ignorant of practical geometry, that he

knew something of proportions though he wanted taste, and like the celebrated Sir John Vanbrugh, who was well acquainted with the proportions of Greek and Roman architecture, he wanted judgement to apply them, and gave to the various parts of this building such as were calculated to make it strong rather than beautiful, which made it appear more like a castle than a church on the outside, and heavy and gloomy within. But it is not my design now to enter upon a minute description of the architecture of this building, because I may hereafter have occasion to take notice of it, in a work purposely intended to explain what relates to the various styles of architecture which come under the general denomination of Gothic;—if I should live to compleat it.



XXIV. *A Description of an antient Picture in Windsor Castle, representing the Embarkation of King Henry VIII. at Dover, May 31, 1520; preparatory to his Interview with the French King Francis I.*  
By John Topham, Esq. F. R. S. F. S. A.

Read June 21, 1781.

THE general advantages which arise to the Antiquary and Historian from the preservation of such authentic historical representations as are coeval with the transactions they record, and the reasons which occasioned the interview between the two kings of England and France, as well as the manner in which that scene of pomp and magnificence was conducted and carried into execution, have been already so ably and elaborately demonstrated by our late worthy Vice President, Sir Joseph Ayloffe, Bart. in his "Historical description of an antient picture in Windsor Castle representing the interview between king Henry VIII. and the French king Francis I. between Guînes and Ardres, in the year 1520," printed in the works of this Society [a]; that it will now only be necessary to refer

[a] Archaeologia, vol. III. p. 185.

to that learned description upon those heads, and confine our present observations to the matters arising from a view of the picture before us, distinctly from the other painting; and for that purpose, to bring to the recollection of the Society, that after every regulation had been made, and preliminary settled by Cardinal Wolsey for this interview taking place in June 1520, king Henry VIII. removed from his palace at Greenwich on the 21st of May on his way towards the sea; the first day he went to Otford, then to Leeds Castle, then to Charing, and from thence on the 25th he reached Canterbury, where he proposed to keep the approaching festival of Whitsuntide [b].

ON the next day king Henry received an account of the unexpected arrival off Hithe of the Emperor Charles V. on his return out of Spain. The Emperor was saluted by the Vice Admiral of England, Sir William Fitz-William, afterwards earl of Southampton, who then lay with a fleet of the king's ships for the protection of the passage between Dover and Calais. Cardinal Wolsey was immediately dispatched to receive his Imperial Majesty at Dover, and towards the evening of the same day the emperor landed in [c] Dover harbour, where he was met by the cardinal, and by him was conducted to the castle of Dover.

THE arrival of the emperor, and the manner in which he was received and entertained during his stay in England, is so minutely described by Stowe in his [d] Chronicle, that I shall give it in his own words.

[b] Stowe's Chronicle.

[c] A curious picture, in the valuable collection of the right hon. lord viscount Montagu at Cowdray, preserves this scene of the arrival of the emperor. The two fleets are given at a distance; the emperor is represented as descending from his ship into a boat, and the cardinal with his attendants are waiting to receive him on the beach in Dover harbour.

[d] P. 506.

“THUS

“ Thus landed Charles the Emperor at Dover under his cloth  
“ of estate of the black Eagle all fret on rich cloth of gold; in  
“ whose company was the queen of Arragon with divers noble  
“ estates and faire ladies of his country and blood, which were  
“ received at the sea side by the lord legate cardinal and other  
“ lords and gentlemen. The emperor, so accompanied, at ten  
“ of the clock at night by torch light was brought to the castle  
“ of Dover, where he rested, and there Sir Edward Poynings,  
“ warden of the Five Ports, brought to the emperor the keys  
“ of the castle, who refused them, saying he knew well that  
“ he was out of all danger and as safe as if he were at home  
“ in his own realm. The same night about two of the clock  
“ the king came to Dover by torch light; and as soon as  
“ the emperor heard of his coming, he arose and met the  
“ king at the stair head, where either embraced the other in  
“ his arms, and there they talked together a long time, and  
“ always the king had the emperor on his right hand. On  
“ the morrow, which was Whitsunday, the king and the em-  
“ peror, with all the other estates, rode unto Canterbury,  
“ the sword born by the earl of Derby riding between them  
“ both, by the kings commandment. And so these princes  
“ rode to Canterbury and to Christ's church, where they were  
“ received with general procession by the lord cardinal and  
“ others. The king and the emperor went both under one  
“ canopy unto Thomas Becket's Shrine, where they made their  
“ prayers and oblations, and then went to the archbishop's  
“ palace where the queen of England, the emperor's aunt,  
“ met him going into the great chamber, of whom he was joy-  
“ fully received and welcomed. The emperor and the king  
“ took a little recreation, and then went to high mass where  
“ they offered, first the emperor and then the king, and so re-  
“ turned

“ turned to their traverses set apart, and after went to dinner,  
 “ at which service the Emperor's trumpets sounded, and not the  
 “ King's.—On Monday at nine of the clock at night was begun  
 “ a banquet, which endured till the next morning at three of the  
 “ clock; at the which banquet the Emperor, the King and the  
 “ Queen did wash together; the duke of Buckingham giving the  
 “ water, the duke of Suffolk holding the towel. Next them  
 “ did wash the Cardinal, the Queen of France, and the Queen  
 “ of Arragon.—At which banquet the Emperor kept the state,  
 “ the King sitting on the left hand, next him the French Queen,  
 “ and on the other side sat the Queen, the Cardinal, and the  
 “ Queen of Arragon; which banquet was served by the Empe-  
 “ ror's own servants.

“ ON Tuesday these estates departed out of Canterbury.—The  
 “ Emperor brought the Queen his aunt on horseback to Dover  
 “ ward.—Then the Emperor and the King kept company toge-  
 “ ther till they came to the Downs, where they parted.—The  
 “ Emperor went to Sandwich and to his fleet, which were in  
 “ number great ships with two tops apiece, 44.”

THE reason of this sudden arrival of the Emperor, our histo-  
 rians inform us, was to endeavour to dissuade Henry from pro-  
 secuting his intended expedition into France; and he is said  
 to have made large offers to Henry to break off his connexions  
 with the French king, with whom the Emperor was at va-  
 riance. In this attempt, however, Charles failed, for im-  
 mediately upon their separation Henry proceeded to Dover, and  
 the preparations for the embarkation were carried on with the ut-  
 most expedition.

THE vast number of the nobility and others, who were ap-  
 pointed to attend the king into France, necessarily took up much  
 time in embarking. The Cardinal Legate, the archbishop of Can-  
 terbury, the bishops of Durham, Ely, Chester, and Exeter, the arch-

arch-



archbishop of Armagh, the dukes of Buckingham and Suffolk, the marquis of Dorset, the earls of Shrewsbury, Essex, Devonshire, Westmoreland, Stafford, Kent, Wiltshire, Worcester, Northumberland, Oxford, and Kildare, made part of the train; besides other lords, knights, ladies, &c. The number of persons attendant upon the king and queen were, according to Stowe, 4334, having with them 1637 horses; besides those of the dowager French queen and the duke of Suffolk her husband, and the Cardinal; the last of whom was attended by 12 chaplains, 50 gentlemen, 238 servants, and 150 horses.

THE necessary preparations being compleated, the king himself embarked early on Thursday morning the 31st of May, and the wind being fair for his passage over, he arrived at Calais about eleven o'clock on that day.

It is the view of this embarkation that the painting now before us perpetuates. The ship called the *Harry Grace de Dieu*, or the Great Harry, is represented as just sailing out of the harbour of Dover, having her sails set. She has four masts, with two round tops on each mast, except the shortest mizen; her sails and pendants are of cloth of gold damasked. The royal standard of England is flying on each of the four quarters of the forecastle, and the staff of each standard is surrounded by a fleur de lis, Or. Pendants are flying on the mast heads, and at each quarter of the deck is a standard of St. George's cross. Her quarters and sides, as also the tops, are fortified and decorated with heater shields or targets, charged differently with the crosses of St. George. Azure a fleur de lis, Or. Party per pale Argent and Vert [e] a union rose. And party per pale Argent and Vert a portcullis, Or, alternately and repeatedly.

[e] Green and white were the favourite badges of the house of Tudor.

ON the main deck the KING is standing richly dressed in a garment of cloth of gold edged with ermine, the sleeves crimson, and the jacket and breeches the same. His round bonnet is covered with a white feather laid on the upper side of the brim. On his left hand stands a person in a dark violet coat slashed with black, with red stockings; and on his right hand are three others, one dressed in black, another in bluish gray guarded with black, and the third in red guarded with black, and a black jacket slashed; these are evidently persons of distinction; behind them are yeomen of the guard with halberts. Two trumpeters are sitting on the edge of the quarter deck, and the same number on the forecastle sounding their trumpets. Many yeomen of the guard are on both decks. On the front of the forecastle are depicted party per pale Argent and Vert, within a circle of the garter, the arms of France and England quarterly, crowned; the supporters a lion and a dragon; being the arms and supporters then used by king Henry VIII. The same arms are repeated on the stern. On each side the rudder is a port hole with a brass cannon, and on the side of the main deck are two port holes with cannon, and the same number under the forecastle. The figure on the ship's head seems to be meant to represent a lion, but is extremely ill carved. Under her stern is a boat, having at her head two standards of St. George's cross and the same at her stern, with yeomen of the guard, and other persons in her.

ON the right of the Great Harry is a three-masted ship, having her sails furled, and broad pendants of St. George's cross flying. She has four royal standards on her forecastle, and on each side the rudder is a port-hole and a cannon. On the upper deck are eight guns on each side, and on the lower deck two. Her sides and tops are ornamented with shields charged with the same arms as those of the Great Harry, with the addition of one

on her stern, viz. Party per pale Argent and Vert a fleur de lis, Or. The forecastle and quarter deck are crouded with persons apparently of the king's suit. Near her stern is a boat with a single person in it.

BETWEEN these two ships is a long-boat or pinnace filled with a number of persons, chiefly yeomen of the guard, with their partizans. At the head are two broad pendants, barry of two Argent and Vert, on the one is a union rose, and on the other a portcullis, Or. Between them stands a person who rests his hand on the staff which supports one of the pendants. At the stern are two other broad pendants, barry of two Argent and Vert, on the one a fleur de lis, Or, and on the other a union rose.

ON the right of this last mentioned ship, near the shore, is another boat filled with persons seemingly of distinction. At its head are two broad pendants, on one of which is a fleur de lis, Or, and on the other a union rose. At the stern are two other broad pendants, the one having a union rose, and the other a portcullis, Or. A man sits at the head with a hat and feather, beating a drum.

THESE two ships are followed by three others, each having pendants of St. George's cross flying; their sides and tops are ornamented with shields charged like the former. That in the foreground of the piece hath four masts; a sail is hoisted on one of the mizen masts, and one is hoisting on the fore mast; the sail on the main mast is furled, but the top and mizen sails are loose. On her forecastle three royal standards are visible, the fourth being hid by the fore sail. On her starboard side is a boat from whence several persons are ascending into the midship by means of the ship's ladder. On the stern of this ship is painted on a ground paly of four the royal arms of England. France is coloured Vert three fleurs de lis, Or: the supporters are a lion and a dragon. Above these arms are three port-holes with cannon, and above them is a union rose and a fleur de lis, Or.

THE next are two three-masted ships ornamented and decorated in a manner nearly similar to those already described; in the stern gallery of one of them are three persons looking out of the windows; he in the center has a hat and feather on his head, and is apparently a person of considerable distinction.

ALL these ships have brass and iron cannon pointed out of the port-holes, and are crowded with passengers; some of whom are looking over the railing of the galleries, and others out of the cabin windows.

BETWEEN these ships and the shore are two boats carrying passengers on board the ships. In the stern of one of them is an officer dressed in green, slashed, holding up an ensign, or ancient of five stripes, white, green, red, white and green, similar to the colours of the adjacent fort. Near him sits a drummer beating his drum, and a fifer playing on a fife.

In the offing is represented a variety of other ships under weigh, having their sails set; and in the distant view the white cliffs on the coast of France between Bologne and Calais are seen, and the castle at Calais is apparent.

In the foreground of the picture, close to the water's edge, are two circular forts, communicating with each other by a terrace. One of these forts contains two tier of cannon, the other three; they are represented as firing a royal salute. On the platform of the westernmost fort are eight embrasures mounted, and on it is a man displaying the colours of St. George. On the platform of the other fort are thirteen embrasures with brass and iron cannon, and two other tier below it. A man displays a pair of colours of five stripes, white, green, red, white and green, similar to those in the boat which is near. At the foot of this fort are two men, one of whom is gathering up cannon balls, and putting them in the leathern apron of his companion.

ON



ON the terrace are several bill men and yeomen of the guard ; some standing to observe the departure of the ships, and others going into the forts.

NEAR the middle of the terrace is a gentleman dressed in a green and yellow jacket, with slashed sleeves and breeches, and white stockings ; over all he wears a black cloak ; he has a yellow ruff round his neck, short yellow hair, wears a black bonnet, and at his side a long sword, the hilt of which he holds in his left hand ; he is preceded by two bill men, and before them is an officer having a dagger at his side, and carries on his left shoulder a sword of state ; this gentleman is obviously a person of distinction, probably sir Edward Poynings, then constable of Dover castle, and warden of the Cinque-ports.

A PAGE is represented as going towards the westernmost fort, beautifully dressed, carrying a sword on his shoulder, to which is suspended a target, richly studded. The dresses of the bill-men are various, but are well represented.

A PERSON is seen sitting on the rock near the inner fort, having a high-crowned hat on his head ; probably a Dutch sailor observing the embarkation.

ON the hill which forms the opposite point of the harbour is seen the castle of Dover. The tower over the principal gateway, and some of the other towers here represented, exactly correspond with the view which that magnificent and stupendous building now exhibits from the same situation.

THE view being taken from the south-west point of Dover harbour, and extending across the harbour eastward to the castle, leaves the town of Dover in the cod of the bay to the north, undescribed.

THE two forts here described were the *Arch-cliff* fort to the west, and the *Black bulwark* to the east. The picture in the collection of lord Montagu abovementioned exhibits these two forts as being near the foot of the round hill called Shakespear's cliff ;

and a plan of the town and harbour of Dover made in the reign of Queen Elizabeth (see plate XXI.) points out with precision the situation of these two forts. A valuable MS. in the library of our worthy member, Gustavus Brander, esq; containing an account of the ordnance, ammunition, and stores of Henry VIII. taken soon after the death of that king, gives us an exact state of the furniture of these two forts at that time; by which it appears that there were in the Arch-Cliff fortrefs four pieces of brass, and twenty-four pieces of iron cannon, and in the Black bulwark three pieces of brass and sixteen pieces of iron cannon. This account, preserving to us the names of the different kinds of ordnance and military instruments then in use, cannot be unentertaining to the Society.

*"The Fortresse of Archclief besides the Peere of Dover."*

ORDYNAUNCE \* and munitions belonging to the said fort in the chardge of Edmund Mondye, Captain, viewed the month of January, An. Reg. Edw. Sexti primo.

Demy culveryns of brasfe	-	-	-	1
Sacres of brasfe	-	-	-	2
Fawcons of brasfe	-	-	-	1
Fowlers of iron	-	-	-	1
Single serpentynes of iron	-	-	-	3
Balis of iron	-	-	-	12

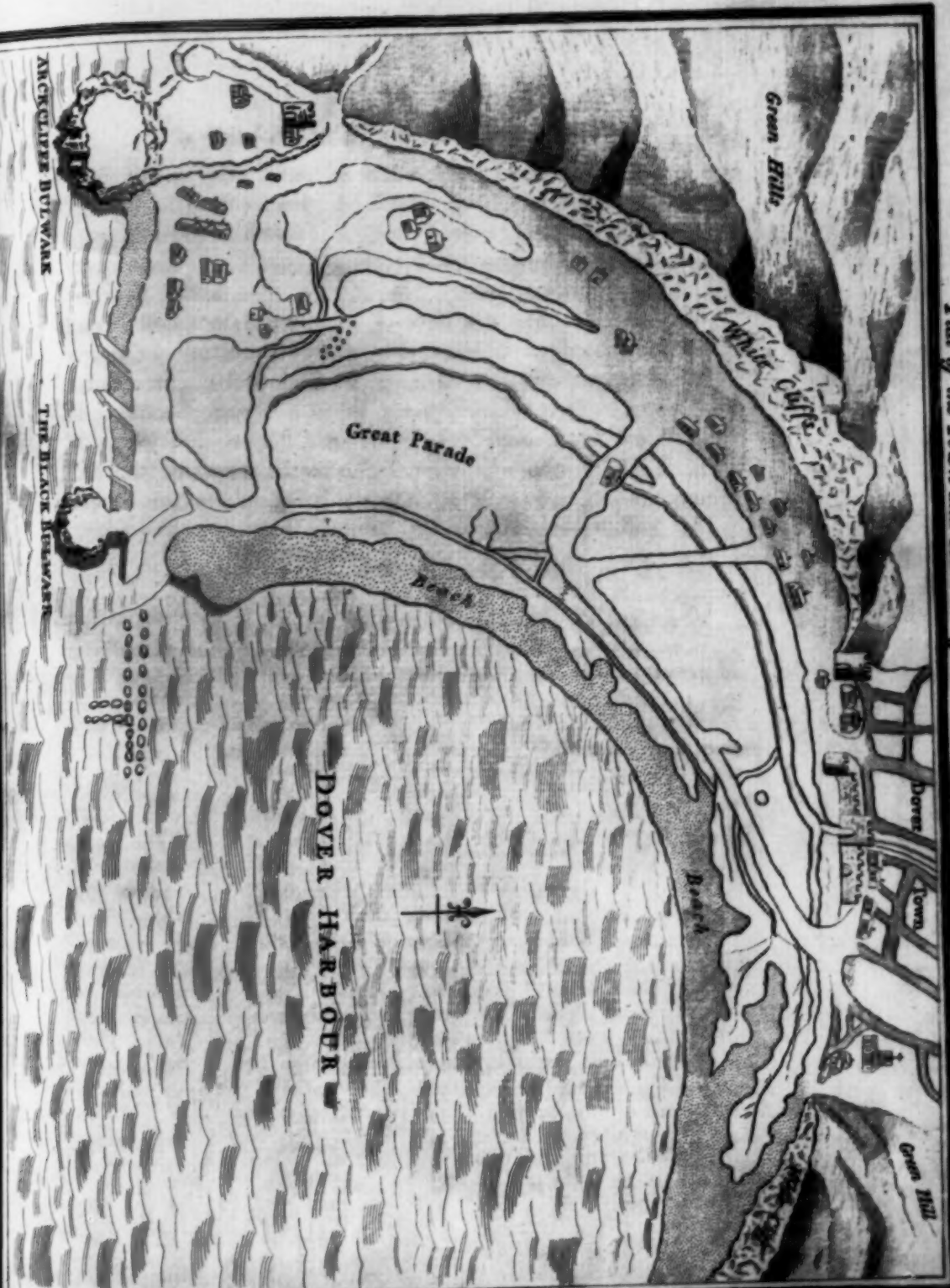
Hag-

\* Ordnance in England is distinguished into two kinds; *Field pieces*, which are from the smallest to 12 pounders; and *Cannon of Battery*, which are from a culverin to a whole cannon. Each of these divisions is again subdivided: the first into base, rabinet, falconet, falcon, minion ordinary, minion largest, saker least, saker ordinary, demi-culverin least, and demi-culverin ordinary: the second into culverin least, culverin ordinary, culverin largest, demi-cannon least, demi-cannon ordinary, demi-cannon large, and royal whole cannon. Chambers's Dict. voce *Ordnance*.

DIFFERENT nations, it is to be observed, give different proportions to pieces of the same denomination; so that we have an Italian, a German, a French, and an English set of *cannons*, all differently adjusted. Chambers's Suppl. voce *Cannon*.

*Plan of the Town and Harbour of DOVER. temp. Queen Eliz.*

Vol. VI. Pl. XII. p. 208.







Hagbushes of iron	-	-	-	4
Powder	-	-	-	oone last.
Demy culveryne shotte	-	-	-	50
Sacre shotte	-	-	-	100
Fawcone shotte	-	-	-	50
Fowler shotte of stone	-	-	-	20
Serpentine shotte	-	-	-	20
Bafis shotte	-	-	-	100
Hagbushes shotte	-	-	-	100
Bowgies	-	-	-	30
Sheiffs of arrowes	-	-	-	60
Bowe stringes	-	-	-	demy grosse.
Morris pickes	-	-	-	20
Blacke bills	-	-	-	50

SIR William Monson in his *Naval Tracts* written in the reign of Queen Elizabeth and James I. treating on the distinct practice or special duties of officers belonging to the King's ships at sea, in "the office of gunner", gives the following account of the names, and dimensions, weight of the cannon, shot, and powder of the ancient English ordnance.

Names.	Bore of cannon. Inches.	Wt. of cannon. lb.	Wt. of shot. lb.	Wt. of powder lb.
Cannon royal	8½	8000	66	30
Cannon	8	6000	60	27
Cannon serpentine	7	5500	53½	25
Bastard cannon	7	4500	41	20
Demi cannon	6½	4000	33½	18
Cannon petro	6	4000	24½	14
Culverin	5½	4500	17½	12
Bafilisk	5	4000	15	10
Demi culverin	4	3400	9½	8
Bastard culverin	4	3000	5	5½
Sacar	3½	1400	5½	5½
Minion	3½	1000	4	4
Faulcon	2½	660	2	3½
Falconet	2	500	1½	3
Serpentine	1½	400	¾	1½
Rabinet	1	300	¾	¾

"The

*"The Black Bulworke at the Piere of Dover, in the Countie of Kent."*

THE ordynaunce and munitions of warre being within the said bulworke, in the chARGE of the saide Mondye, Captaine.

Basilliches of brasſe	-	-	-	1
Culverynes of brasſe	-	-	-	1
Demy culverynes of brasſe	-	-	-	1
Porte pieces of irone	-	-	-	6
Slinges of iron	-	-	-	3
Balis of irone	-	-	-	7
Demy slinges	-	-	-	5
Basilliche shotte	-	-	-	150
Culveryne shotte	-	-	-	100
Shotte for porte pieces	-	-	-	40
Slinge shotte	-	-	-	20
Demy slinge shotte	-	-	-	40
Balle shotte	-	-	-	100

THE pier and harbour of Dover have been formed and supported at an immense expence. Lambard, in his *Perambulation of Kent* \*, tells us, that king Henry VIII. expended 63000*l.* upon a pier to restore the haven, but in vain. And Camden in his *Britannia* †, says, that "king Henry VIII. built a mole or pile wherein ships might ride with greater safety. It was done with much labour and at infinite charge, by fastening large beams in the sea, then binding them together with iron, and heaping on great quantities of wood and stone. But the fury and violence of the sea was quickly too hard for the contrivance of that prince, and the frame of the work, by the continual beating of the waves, began to disjoint and fall into decay." Harris, in his *History of Kent* ‡,

\* P. 147.

† P. 250.

‡ P. 103.

gives the following account.—“ As to the famous pier of Dover, I find by the Dering MSS. that king Henry VIII. laid out here above 80000*l.* in that work, making a bulwark which from Arcliff ran far out into the sea to the eastward, and hereby was gained much firm ground. In this place he made motes and bulwarks, and appointed officers and soldiers to keep guard here. These had also the care of the Black Bulwark.

“ In process of time the sea brought such quantities of beach upon the pier, especially about a fort on it called the Black Bulwark, that it drove through the piles, and choaked up the harbour, making a shelf of beach from thence easterly to the bottom of the cliff, called Castle Ray; and this ruin of the pier continually increased, both by the neglect of repairing it, and also by the poor people's stealing the wood and iron from it.”

IN the reign of queen Elizabeth, the mayor, jurates, and commonalty of Dover presented a petition to the lords of the council, stating the importance of the harbour of Dover, the ruinous state and condition in which it then was, and proposals for the reparations and works which were then thought necessary to be made, and prayed their lordships to devise some means for carrying the proposed plan into execution\*.

IN

\* This petition containing some curious facts, it may not be improper to preserve it.

To the right honorable lordes and others of the Queens Maiesties' most honorable privie Councell.

In most humble wise complayninge, beseechen yo<sup>r</sup> hono<sup>r</sup> yo<sup>r</sup> humble orato<sup>r</sup> the mai<sup>or</sup> jurates and cōsalties of the Queens Ma<sup>ties</sup> towne and porte of Dover in the countie of Kent. That whereas the harbo<sup>r</sup> of Dover is of late yeres fallen into greate decaye and ruyn, and in few yeres to come is verie like to fall into utter distrucc<sup>on</sup>, being a place of suche necessarie service for this realme. What  
necessarie

IN consequence of this representation, various means were thought of for carrying this necessary, though expensive, plan into execution. A tax or licence of half a crown on every public house in the kingdom for a certain number of years was proposed, but not agreed to. At length an act of parliament passed in the 23d year of Eliz. (cap. 6.) for laying a duty upon every vessel above the burthen of 20 tons, sailing into, or out of, any port in the kingdom, for the term of seven years. That term was continued for seven years longer by the statute of 31st of Eliz. cap. 13. and was again renewed for seven years by the statute of the 1st of king James, cap. 32.

To carry the plan of forming the present pier and harbour into execution, the Black Bulwark was taken down, and the west head of the pier then erected was built upon its foundation. The Arch-Cliff fort has been since that time new modelled, and still remains a strong fortification.

#### THE

necessarie service that harbo' hath done to the noble kings of this land, speciallie in the tymes of all their victorious warres, we nede not to sett forth to yo' honors, for that to ev'ye of you, the same is sufficientlie knowen: what service it doth dailie in the tyme of peace (and would doe more if it were not so decayed) it were too tedious to expresse to yo' hono<sup>r</sup>; synallie wee yo' poor suppliants in o' symple opynions, doe not thinke that any thinge is more requisite for the com'on weale and safetie of this o' naturall country, than the repaying of the saied harbo' for the fundrye and manye com'odities that the Kinges of this land and o' whole countrey have receaved, and might daylie more and more receave by the same: and wee yo' saied humble orato<sup>r</sup> thinkinge it o' bounden duties, not onelie to be contynuall sutors to her Ma<sup>tie</sup> and yo' hono<sup>r</sup> for amendment of the present decayes, w<sup>ch</sup> the saied harbo' is now in (as often heretofore wee have bene,) but also not to pretermitt at anye tyme anye manner of service or dutie w<sup>ch</sup> lieth in o' com'on wealth and countrey, have of late sent over into Flanders for fundrie men of experience of that countrey, to come hither, who upon good deliberacion and view taken, have sett downe as well a perfect platt, shewing how it may be made a verye good harbo' to contynewe for ever, as also a perfect and playne demonstracion of the whole charges w<sup>ch</sup> it will amount unto (as themselves have promised to undertake w<sup>th</sup> good



THE uncommon form of the ships represented in this picture cannot escape observation. The vast height of the masts, the distance from the upper deck and stern gallery to the edge of the water, the shape of the forecastle and the quarter deck, and the ornaments and decorations of the whole, exhibit a view extremely striking and unusual.

CONSIDERABLE changes having taken place at different times, in the form and magnitude of ships used in this kingdom; it may not be displeasing to the Society to lay before them some observations, so far as they can be supported by authentic information, upon the subject of the English navy previous to its being regularly established by king Henry VIII.

good sureties to performe) that is to saye, Sixtene thousand cc pounds and od' money, w<sup>ch</sup> is lesse by XXX. m. lib. at the leaste than the same hath bene estimated at heretofore: And thereuppon we have also brought certen Englishmen of good experiance to the said view, who doe not only like and allow of the Duchemens devise and plott, to be the best way that canne be taken for making of the same wherebye it may be serviceable for ever, but also doe agree that it will be performed for that some w<sup>ch</sup> they have so sett downe. And further (right honorable Lords) if this good oportuniti: be not now taken for makinge the said harbo', neither if her Ma<sup>ty</sup> doe not presentlie repaire the olde wood worke at the peere head w<sup>th</sup> two proynes to be new made agreablye to a note thereof sett downe by the said Duchemen, with great expedicion, it is not orelie verie like that the most parte of her highnes howses there will in short time be eaten up with the sea, but also that place w<sup>ch</sup> now will serve to be made so good a harbour wil be utterly spoy'ed with aboundaunce of beache or preple that the sea will cast in at the new breache, and so never hereafter anye harbo' to be made there, wha soever neede shall be thereof for anye cost or charges whatsoever. Wherefore we humbly: beseeche yo' hono<sup>rs</sup> to be the meanes to the Quenes most excellent Ma<sup>ty</sup> that some devise may be made for sevinge of money and establishing of good order by yo' honourable discrecions for the said worke in convenient tyme to be taken in hande. And we yo' said p<sup>re</sup>ore orato<sup>r</sup> accordinge to o<sup>r</sup> bounden duties shall daylie praye to God for the preservation of yo' hon<sup>rs</sup>.

OUR historical accounts before the arrival of the Saxons in this country are too vague and deficient to furnish us with positive information upon the subject of this enquiry. King Alfred is generally deemed the founder and promoter of our naval strength. Navigation, till that period, had been but little understood, and long voyages seldom attempted. The laws of King Athelstan gave peculiar encouragement to navigation; the merchant, who had been thrice across the high seas upon his own account, became intitled to the rank and privileges of a thane\*. King Edgar's ships had increased to a number almost incredible. Some of our historians† make them amount to between three and four thousand. These, however, supposing the numbers to be true, must be considered in point of size to be small and insignificant.

THE royal navy had no existence in those times, except in the pinnaces or barges for the king's own use. The different sea-ports of the kingdom were bound by their tenure to supply their quota of ships whenever the public service required it. The ports in Kent and Suffex, as commanding the passage of the narrow seas, had particular encouragement given them to promote the naval strength of the kingdom. At the time of the compilation of that authentic and venerable record, Doomsday-book, those ports were found to have enjoyed various franchises and immunities under our Saxon monarchs, upon condition of their supplying a certain number of ships, manned with a certain number of mariners, for a given time every year. When the time of their bounden service was expired, they were to be retained at the charge of the King by whom their assistance was called for.

\* Wilkins's Saxon Laws, p. 71.

† Florence of Worcester, Hoveden, and others.

THE ports generally called the Cinque-ports, with their members, were bound by their tenure to supply the king with fifty-seven ships, containing twenty-one men and a boy in each ship, for fifteen days once in the year at their own expence, if their service was required. When the king had occasion for a fleet, he issued his mandate to the ports to fit out the number of ships they were bound to supply \*. If these were insufficient, the mandates were more extensive; they frequently being to arrest indiscriminately all ships of more than a certain burthen †. Officers were authorized to inspect the ships

\* A. D. 1393. } Mandate from king Ric. II. to John de Beau-  
 Claus. 18 Ric. II. m. 34. } champ, constable of Dover castle, and warden  
 Rym. tom. VII. p. 784. } of the Cinque-ports, reciting, "That whereas  
 "the Barons of the Cinque-ports owe us the following annual service when re-  
 "quired, viz. that the said ports and their members should upon 40 days notice  
 "fit out and supply the king with 57 ships, each having a master and 20 men well  
 "armed and arrayed, at their own proper costs for 15 days; at the expiration of  
 "which time the said ships and men to be at our proper charges and pay, so long  
 "as we shall have need of them, viz. the master of each ship to have 6d. the  
 "constable 6d. and each of the other men 3d. *per diem*; as by the tenor of the  
 "charters and liberties granted by our predecessors, and which we have confirmed, it  
 "appeareth. And we having ordained a great naval armament to assemble for our  
 "voyage into Ireland, therefore summon the said Barons to perform the said service  
 "by sending their said ships and mariners, well arrayed, to attend us at Bristol, &c.

A. D. 1412. Claus. 13 Hen. IV. m. 18. } A like summons.  
 Rym. tom. VIII. p. 733.

A. D. 1421. Claus. 9 Hen. V. m. 24. } A like summons.  
 Rym. tom. X. p. 108.

† OUR public records contain innumerable instances of these mandates: the following will be sufficient to refer to upon this occasion.

Pat. 3 Hen. V. p. 1. m. 33. d. } THE king directed Nicholas Maudyt, his ser-  
 Rymer, tom. IX. p. 218. } jeant at arms, to arrest all ships and vessels in  
 every port in the kingdom of the burthen of 20 tuns and upwards, for the king's service.

Pat. 14 Edw. IV. p. 2. m. 16. d. } THE king commanded all ships and vessels of  
 Rymer, tom. XI. p. 839. } the burthen of 16 tuns and upwards to be  
 arrested for his service.

so procured, and to see that they were sufficiently supplied with men and necessaries in proportion to their tonnage. A curious instrument, issued for that purpose in the reign of king Edward II. remaining upon record, will assist us in forming a judgement of the manner in which that service was performed. By this instrument\* Sir John Devereze, clerk, was appointed surveyor of a fleet ordered to assemble in the west, to see that they were furnished with anchors, cables, and other necessaries; and that every ship was sufficiently manned in proportion to its size; viz. a ship of 240 tuns with 60 men, of 200 tuns with 50 men, of 160 or 170 tuns with 40 men, of 140 tuns with 35 men, of 120 tuns with 28 men, of 100 tuns with 26 men, and of 60 tuns with 21 men. And that each ship of 180 tuns and upwards should have one master and two constables†, and those of 160 tuns and under, one master and one constable, who were to be included in the number above specified.

IN those times, when ships were intended for fighting, soldiers were put on board them, and the battle was fought with bows and arrows, cross-bows, darts, spears, slings, and other missile instruments. To grapple and board were the chief objects of a naval fight; and when that was effected, the conflict generally became desperate and bloody.

THE fleet of king Edward II. employed in the wars against Scotland, in the fifteenth year of his reign, A. D. 1322, is preserved in a valuable M. S. in the library of our worthy member Thomas Astle, Esq. being the account of Roger de Waltham, keeper of the great wardrobe, from the first of May, in the fifteenth year of Edw. II. to the 19th of October, in the 17th

\* Printed in the Appendix, N° I.

† The Constable was probably the director of the engagements.



year of the same king, under the head of wages of seamen, and freightage of ships in the king's service: whereby it appears that the king had eleven ships of his own in that service, manned with 379 men, and fifteen other private ships, having on board near 600 men. The names of these ships of the king, with the names of the master, the number of seamen, and the sums paid for their wages, computed at 6d per day for the master, and 3d a-day for each man, for the time they were respectively employed, is here given:

#### THE KING'S SHIPS.

Names of the ships.	Names of the Masters.	N <sup>o</sup> of Seamen.	Sum paid.		
			l.	s.	d.
La Blithe de Westminster.	Robert Lenys	10	26	11	9
La Squynkyn de Westm <sup>r</sup>	Thomas Springet	8	19	10	0
La Rose de Westm <sup>r</sup>	John Brewer	7	19	11	6
La Godale de Westm <sup>r</sup>	John Fughler	28	24	4	3
La Alianore de Westm <sup>r</sup>	Roger Catour	38	47	3	0
La Magdalene de Westm <sup>r</sup>	William Attie Wofe	38	38	6	0
La Blithe de Westm <sup>r</sup>	William Punche	8	15	17	6
La Katerine de Westm <sup>r</sup>	Theobald de Barton	36	16	11	0
La James de Westm <sup>r</sup>	John Little	46	43	1	0
La Nicholas de Westm <sup>r</sup>	Richard Fille	78	28	0	0
Coga Johannis.	Peter Bard.	82	64	1	0

In the year 1339, 13 Edw. III. \* it was ordained in parliament, that, for the safeguard of the sea, the Cinque-ports should supply their quota of ships; and the mariners of the west undertook to set forth 70 sail of ships of the burthen of 100 tuns or more, and to bear the charges thereof as far as they were able; and the ships of Portsmouth of the burthen of 100 tuns and upwards were ordered to assemble at Dartmouth.

\* Rot. Parl. vol. II. p. 108.

A LIST of the fleet employed by K. Edward III. at the siege of Calais in the 25th year of his reign is extant \*. This list preserves to us the number of the king's ships at that time, as well as those supplied by the different sea-ports of the kingdom: several of which have long since fallen into disuse. The king's ships were then 25, carrying 419 mariners, being somewhat less than 17 men to a ship; and the number of the whole fleet was 700 ships, manned with 14151 mariners, which upon the general average was little more than 20 men to a ship.

IN a pardon granted to William of Wickham, bishop of Winchester, 1 Richard II. † it is recited that the said bishop had undertaken to supply king Edward III. in the 50th year of his reign, with three ships, for a quarter of a year; each ship having fifty men at arms and fifty bowmen, at the wages and rewards which the king usually paid: the king to pay the mariners.

Stat. 5 Ric. II. stat. 1. cap. 3.

6 Ric. II. cap. 8.

14 Ric. II. cap. 6.

} ALL these statutes restrain merchandizes from being carried out of, or brought into, the kingdom, except only in *English ships*; provided the owners were satisfied with reasonable gains for the freight thereof. This would consequently greatly encourage the English shipping, and laid the foundation of the famous navigation act which was not completed till the reign of Charles II.

IN 1412 ‡ king Henry IV. complained to the king of Portugal that the ship Thomas, of London, being of the burthen of two hundred tuns, and having a master, a merchant, and a purser (burse-magister) on board, had been violently seized at Lisbon, and the master and crew confined in chains.

\* Printed in the Appendix, No. II.

† Rymer, tom. VII. 161.

‡ Ibid. tom. VIII. p. 727.

In a treatise, "On the Policy of keeping the Sea," preserved in Hakluyt's Voyages \*, is a chapter called "Another Incident for keeping the Sea in the Time of the marvellous Warriour and victorious Prince King Henry the Fifth, and of his great Shippes;" wherein the rhiming author gives us an account of the ships in that reign, in these words:

"And if I should conclude all by the King  
Henry the Fifth, what was his purposing  
When at Hampton he made the great *Dromons*  
Which passed other great ships of all the Commons  
The *Trinity*, the *Grace-Dieu*, the *Holy Ghost*,  
And other moe, which as now bee lost;  
What hope ye was the King's great intent  
Of thoo shippes, and what in minde hee meant,  
It was not ellis but that he cast to bee  
Lorde round about environ of the See.  
And when Harflew had her siege about,  
There came Carracks horrible, great, and stoute.  
In the narrow see willing to abide  
To stop us there with multitude of pride  
My Lord of Bedford came on and had the cure,  
Destroyed they were by that discomfiture, &c."

IN 1442, 20 Henry VI. † the commons in parliament stated the necessity of having an armed force upon the sea, and pointed out the number of ships and men that it would be proper to employ for that purpose; viz. *eight ships with fore-stages*, carrying 150 men each; and that there should be attendant upon each ship, a *barge* carrying 80 men, and a *balynger* carrying 40 men, and that four *spyues* or *pinnaces* carrying 25 men each, would be necessary; the whole number of men being 2260; and the

\* Vol. I. p. 203.

† Rot. Parl. 20 Hen. VI. N° 30. vol. V. p. 59.

estimated expences of victualling this fleet for eight months, and the mariners wages for that time, amounted to 6090l. 13s. 4d. The Commons likewise pointed out where these *ships* might be obtained, viz. "At Bristowe, the Nicholas of the Towre, and "Katherine of Burtons. At Dartmouth, the Spanish ship that "was the Lord Puns\*, and Sir Phelip Courteney's great ship. "In the port of London two great ships, one called Trinity, "and the other called Thomas. At Hull, a great ship called "Taverners, the name Grace-dieu. At Newcastle, a great ship "called the George." They also state where the *balyngers*, *barges*, and *spynes*, or pinnaces, might be procured.

IN 1449 †, the king, at the request of John Taverner, of Hull, mariner, "who, with the divine assistance and of divers "of the king's subjects, had made a ship as large as a great "carrack or larger, then being in the port of London, granted "that the said ship, by reason of her unusual magnitude, should "be named the *Grace-dieu-Carrack*, and should enjoy certain "privileges in trade."

IN 1455, king Henry VI. ‡ at the request of the king of Sweden, granted a licence for a Swedish ship called the King's Barge, of the burthen of 1000 tuns or under, laden with merchandize, and having 120 persons on board, to come into the ports of England, there to dispose of her lading, and to relade back with English merchandize.

THE inscription on the tomb of William Canning, in Ratcliff church, Bristol, ann. 1474 §, "mentions his having forfeited the "king's peace, for which he was condemned to pay 3000 marks, "in lieu of which sum king Edward IV. took of him 2470 tuns "of shipping; amongst which there was one ship of 900 tuns "burthen, another of 500 tuns, and one of 400 tuns, the rest "being smaller." "Yet (adds the laborious and valuable Ander-

\* Q Poyntz's:

† Rymer, tom. XI. p. 258.

‡ Rymer, tom. XI. p. 364

§ Anderson's Hist. of Commerce, vol. I. p. 271.

" 1011.)



“son) although these greater ships had English names, we are  
“nevertheless in doubt whether we had at that time ships of our  
“own building in England so large; possibly therefore Canning  
“might have either purchased or taken them from the Hanseatics,  
“or from the Venetians, Genoese, Luccese, Ragusians, or Pisans;  
“all of whom had ships of even a larger burthen at that time.”

IN 1478\*, King Edward IV. granted a licence to Robert Alcock, to send an English ship of 240 tuns or under, laden with merchandize (not of the staple of Calais), to Iceland, and there to relade with fish or other goods back to England.

IN 1481†, king Edward IV. in the 20th year of his reign, having occasion to send a naval force against his faithless and antient enemy the king of Scotland, issued his mandate for arresting seamen for manning six ships of his own, and five belonging to other persons. The king's own ships were called the *Grace de Dieu*, the *Mary*, the *Anthony*, the *Great Portingale*, the *Spanyard*, and the *Mary Asbe*.

IN 1512‡, 3 H. VIII. in an indenture made between the king and sir Edward Howard, kt. “admiral chief and general capitayne  
“of the king's naval force,” the names and magnitude of the fleet  
“then to be rigged, equipped, tackelled, decked, and furnished with  
“ordenance and artillery necessary and convenient,” are preserved, as followeth:

	Tuns.		Tuns.
The Regent of	1000	The Lyon	120
The Mary Rose	500	The Barbara	140
The Peter Pomegranate	400	The George of Falmouth	140
John Hopton's ship	400	The Peter of Fowey	120
The Nicholas Reede	400	The Nicholas of Hampton	200
The Mary John	240	The Martenet	180
The Anne of Grenewich	160	The Genet	70
The Mary George	300	The Christopher Davy	160
The Dragon	100	The Sabyen	120

\* Rymer, tom. XII. 94.  
VOL. VI.

† Ibid. p. 139.  
D d

‡ Ibid. p. 327.  
SOON

Soon after this the famous ship the *Harry Grace a Dieu* was built. Stowe gives us the following account of the occasion of building this ship. "About the month of August, 1512, (says that accurate annalist) \* the navies of England and France meeting in Bretaine Bay fought a cruel battle, in the which the *Regent* or *Sovereign* of England, and a carrick of Brest in France, being grappled together, were burned, and their captains with their men all drowned. The English captain was Sir Thomas Knevet, who had with him Sir John Carew and 700 men. In the French carrick was Sir Pierce Morgan with 900 men, who were all burnt or drowned. King Henry, hearing of the loss of the *Regent*, caused a great ship to be made, such a one as the like had never been seen in England, and named it "*Henry Grace de Dieu*." Hall, and other Chronicles of the time, give a similar account of the time and occasion of building this celebrated ship.

In that reign the royal navy of England was settled upon a regular and permanent establishment; a navy office was erected by king Henry VIII. and we find by an inventory †, taken after the death of that monarch, that the king's ships, gallies, and pinnaces, were then encreased to 53, containing 6255 tons, and carrying 7780 men.

THESE authorities apply to the magnitude of the ships formerly used in this country; as to the form, our proofs are not so satisfactory. Coins, and the seals of admirals and sea-port corporations, are our principal evidences upon this head. The nobles, the rials, and the angels of our kings from Edward III. to Charles I. inclusive, represent the figure of a ship on their reverses; all of which, previous to the reign of Henry VIII. give only one mast and one sail. One of the

\* P. 490.

† Printed in the Appendix, N<sup>o</sup> IV.

George-nobles of that king (probably struck early in his reign), has likewise only one mast; but another coin of that reign represents a ship with three masts. A pattern six-angel piece of his son Edw. VI. also represents a ship with three masts clearly distinguished.

AN original seal\* of John Holland, Earl of Huntingdon (afterwards Duke of Exeter) admiral of England and Ireland in the reign of Henry VI. in my possession, exhibits a ship with one mast, and one sail, charged with the arms of the admiral. She has a forecastle and a stern gallery, whereon flags of St. George's cross are displayed, and a pendant is flying at the mast head. A lantern is suspended as a mark that this was a principal ship, from which the signals were to be received.

THE seal of Richard, duke of Gloucester, as admiral of England in the reigns of Edward IV. and Edward V. was lately exhibited to this Society by our learned President. That seal represents a ship somewhat larger in appearance, and more decorated, than that last described. Only one mast and one sail however is given; the sail is set, and is charged with the arms of the royal admiral; flags of St. George are flying; and the mark of distinction is given by representing a beacon to communicate signals.

THE seals of several of the incorporated sea-port towns likewise represent ships of a similar form and construction with those above described; and not any of them, that I have seen, give more than one mast and one sail prior to the reign of Henry VIII †.

FROM these facts it may be inferred, that the ship antiently used in this country was small and insignificant, and that it gra-

\* See the curious history of the Hospital of St. Katharine, lately published by Mr. Nichols, Plate IV. where this Seal is engraven.

† See the seals of Dunwich in Mr. Gardiner's History of that town: those of Dover and Feversham engraved for Mr. Boys of Sandwich and Mr. Jacob: and those of Newtown and Yarmouth, in the Isle of Wight, in the valuable history of that island.

dually increased in size as necessity and convenience pointed out. The use of cannon on ship-board would occasion a great increase in the size of the ship; and the discovery of the new world having opened the eyes of Europe to the advantages of commerce and distant navigation, necessarily required an enlargement of the vessel, as well for the use of the guns as for the convenience of the stores and cargoes: we consequently perceive the gradual progress from the small one-masted vessel, to the high-built, double-topped, four-masted ship, represented in the picture before us.

WHEN cannon were first used 'on ship-board cannot be precisely ascertained; but it is probable they were occasionally used, in some shape, soon after their first invention about the middle of the 14th century. Some authorities will assist us in forming an opinion upon this subject \*. Cannon were used by land at the

\* The learned Dufresne in his Glossary gives the following description and authorities upon the subject of *guns* and *cannons*.

"*Gunna*; *Machina bellicæ*, seu *missilis species*; vox contracta ex *mango* vel *mangona* uti opinatur Sæmnerus." Tho. Walsinghamus, p. 226. "Nec mora, consuetis adhibitis instrumentis, missilibus, scil't, quæ vulgus *gunnas* vocant, terribiliter feriunt." Idem, p. 303. "Et cum lapidibus, lanceis et sagittis, igne Græco & missilibus, quæ *gunna* vocantur, nostros ubique repellunt." Ib. p. 374. "Quod cum illi præcise negarent, intendant *gunnam magnam*, cujus unico jactu decedit partem unius turris."—Ib. p. 398. "Et illic figere vel locare *gunnas* suas quas Galli *canones* vocant, quibus validius villam infestare posset." Ex quibus patet, *gunnam* eadem fuisse *machinam bellicam* quam nostri *canonem* vocabant quæque Angli a *gunna* dicitur. Unde nescio an a *gunnis* dicti sint *canones*, quasi *gunnones*."

Ibid. voce *Canones*. "*Machina bellicæ* nostris *canoni*, sic dictæ, ut quidam volunt quod *cannarum* formam referant, ita enim *canones* siphones vocant Itali." Tho. Walsingham, in Henry V. p. 398. "Et illic figere *gunnas* suas, quas Galli *canones* vocant, quibus validius villam infestare posset,"—Continuator Nangij ann. 1356. "Munientes turres balistis, garrotis, *canonibus* et machinis, &c." Chronic. MS. Bertrandi du Guesclin, "pour la ville assaillir ordonnerent *canons*."



the battle of Cressy in the year 1346 \* by the English; and we are told that the Venetians used them at sea about the year 1380 †. In 1386 ‡ certain English ships met with two French ships sailing towards Sluis, which they took and brought into Sandwich. There was found on board those ships a *master gunner*, who before served in the English army at Calais, under Sir Hugh Calverly; “and also (says Hollinshed) divers great guns and engines to beat down walls, with a great quantity of powder that was worth more than all the rest.”

In the first year of Richard II. § the king directed Thomas Norbury to buy and provide of Thomas Restwold, of London, two great and two lesser engines called *cannons*; 600 stone shot for the same and other engines, and a great quantity of bows and arrows, iron, steel, saltpetre, sulphur, charcoal, and other ammunition for stores to be sent to the castle of Brest.

In 1414, king Henry V. || commanded the collectors of the port of London and other ports, not to suffer any *gunpowder* to be carried out of the kingdom, without the king's special licence.

In 1418 \*\* the king commanded the clerk of the works of his ordnance to procure labourers for the making 7000 stones for guns of different sorts, in the quarries of Maidstone in Kent.

In the same year †† the king commanded the clerk of the works to prepare twelve great carriages for large guns, 20 pipes

In *computo auxiliorum coactorum pro liberatione Joannis Regis Franc. ann. 1368, in camera computor. Paris.* “Guillaume l'Escuier *Maistre des canons du Roy*, que icelui seigneur lui a ordonne estre baille pour querir cent livres d'estoffe “a faire poudre pour quatre *grans canons* qu'il doit faire pour mettre en la garnison “de Haroulen.”

\* Mezerai. Rapin.

† Camden's Remains.

‡ Hollinshed's Chronicle, vol. II. p. 453.

§ Rot. Franc. 8 Ric. II. p. 2. m. 15.

|| Claus. 2 Henry V. m. 16.

\*\* Pat. 5 Henry V. m. 4.

†† Ibid. m. 3.

of powder made of the charcoal of willows, and various other articles for the use of the guns.

IN 1474 \* king Edward IV. directed all the *bombs, canons, culverins, fowlers, serpentines*, and all other *canons* whatsoever; as also powder, sulphur, saltpetre, stones, iron, lead, and other materials fit and necessary for the same canons, wherever found, to be taken and provided for his use, paying a reasonable price for the same.

IN the year 1521 †, was first introduced the use of *band guns* or *muskets*; in consequence whereof (says Mr. Anderson) in little more than 100 years the practice of bows and arrows in war was laid aside.

IN 1521 ‡ John Owen began to make brass ordnance, as *canons, culverins*, and such like; he was the first Englishman (says Stowe) that ever made that kind of artillery in England.

IN 1543, 35 Henry VIII || “ the king minding wars with  
“ France, made great preparations and provision, as well of mu-  
“ nitions and artillery, as also of *brass ordnance*, amongst which  
“ at that time one Peter Bawd, a Frenchman born, a gunfoun-  
“ der, or maker of great ordnance, and one other alien called  
“ Peter Van Collen, a gunsmith, both the king's feed men,  
“ conferring together, devised, and caused to be made, certain  
“ *mortar pieces*, being at the mouth from eleven inches unto  
“ nineteen inches wide; for the use whereof the said Peter and  
“ Peter caused to be made certain hollow shot of cast yron stuffed  
“ with fire-work or wildfire, whereof the bigger sort for the  
“ same had screws of yron to receive a match to carry fire kin-  
“ dled, that the fire-work might be set on the fire to break in small  
“ pieces the same hollow shot, whereof the smallest piece, hit-  
“ ting any man, would kill or spoil him. And after the king's

\* Pat. 14. Edw. IV. p. 2 m. 16.

† Anderson's History of Commerce, vol. I. p. 351.

‡ Stowe's Chron. 572.

|| Ibid. p. 584.

“ return from Bullen, the said Peter Bawd by himself, in the  
“ first year of Edward VI. did also make certain ordinance of  
“ *cast yron* of divers sorts and forms ; as fawconet, falcons, mi-  
“ nions, sakers, and other pieces.”

NOTWITHSTANDING these authorities are sufficient to convince us that cannon were used on ship-board, in some manner, soon after they were invented, yet it doth not clearly appear when they were first used in their present form. We have representations of ships in the reigns of Richard III and Henry VII \*, having guns pointed over the tops of their sides or gunwales ; but sir Joseph Ayloffe, in his learned description of the paintings at Cowdray † tells us, “ that the earliest representation of ships of  
“ war having *port-boles* for their guns, which he had met with,  
“ was in the valuable picture preserved at Cowdray of the land-  
“ ing of the Emperor Charles V. at Dover, in the year 1520.” It is however certain that the ship *Harry Grace a Dieu*, built by king Henry VIII in the 4th year of his reign, had cannon and many port holes.

THIS ship varied in its decorations and in the number of its port-holes and guns at different times. She is represented in the picture before us as having her sides and tops ornamented with shields charged with the different arms the king used, and having only five port holes on each side open. In the curious painting preserved at Cowdray, engraved by this Society, made 25 years after, the shields of the arms are not shewn, and more port-holes are open ; she being then in the act of engaging the enemy. An original drawing of this ship presented to king Henry VIII, in the 38th year of his reign, A. D. 1546, by Anthony Anthony, one of the officers of the ordnance, still preserved in the Pepysian library, in Magdalen college, Cambridge ‡  
(from

\* Cotton. MSS. Julius, E. IV.

† *Archaeologia*, vol. III. p. 267.

‡ This curious book beautifully drawn and written upon vellum, and embellished with gold, is intituled “ A Declaration of the Royal Navy of England,  
“ com-

(from an accurate copy of which, made by the ingenious Mr. Ker-  
rich, of that college, the annexed plate XXII. is engraven), repre-  
sents this ship as carrying more than 80 guns, and having port-  
holes for many more; the shields of arms are all removed except  
the cross of St. George; banners of different colours are displayed  
upon the fore-castle and main deck; the standard of England is  
flying at the main-top-mast head, and a great number of pen-  
dants of St. George's cross are suspended at the different masts by  
way of ornament. A particular state of the guns, ammunition,  
and stores of every kind belonging to this ship at that time, is  
printed in the Appendix, No. III from the above-mentioned  
valuable book. These three authorities however concur in re-  
presenting the form of this ship to be the same, although they  
differ somewhat in the ornaments and decorations.

THERE is an engraving of a ship said to be of the Great  
Harry from an original of Hans Holbein, published by T. Al-  
len, 1756, which differs so widely from the above authorities  
that it seems apparent they could not be meant to represent the  
same ship. The prow and the round towers on the fore-castle,  
the main deck, and the stern gallery of the ship in Allen's print  
vary the form so essentially as to destroy any similarity be-  
tween that ship and those above spoken of, and make it highly  
probable that his engraving was made from a drawing of a  
date subsequent to the reign of Henry VIII. He has not told us  
where his original is now preserved; but there is one circum-  
stance which, if he has followed his painting faithfully, is deci-  
sive upon the point against him; namely, that the supporters of  
the royal arms on the stern of the ship in his print are a lion and a  
unicorn; whereas it is well known that the unicorn was not in-  
troduced

"composed by Anthony Anthony, one of the officers of the ordnance, and by him  
"presented to king Henry VIII. an. regni 38. Dni. 1586, in three parchment  
"rolls, containing, roll 1st shippes; 2d galliasses; 3d pynasses and rowe larys."

These

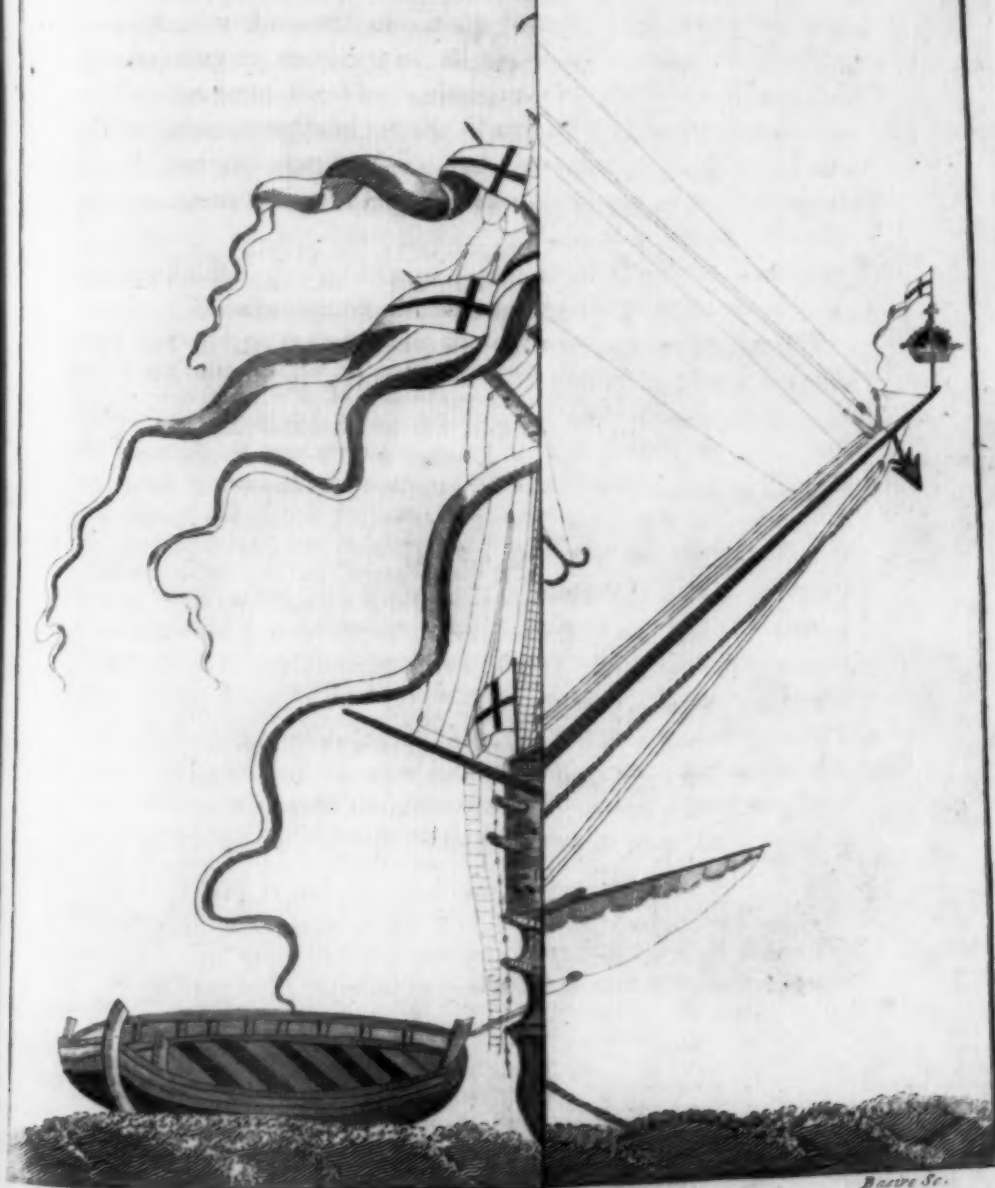


*Vol. VI. Pl. XXII. p. 208.*

*Tonnage.....1000.*

*MEN*

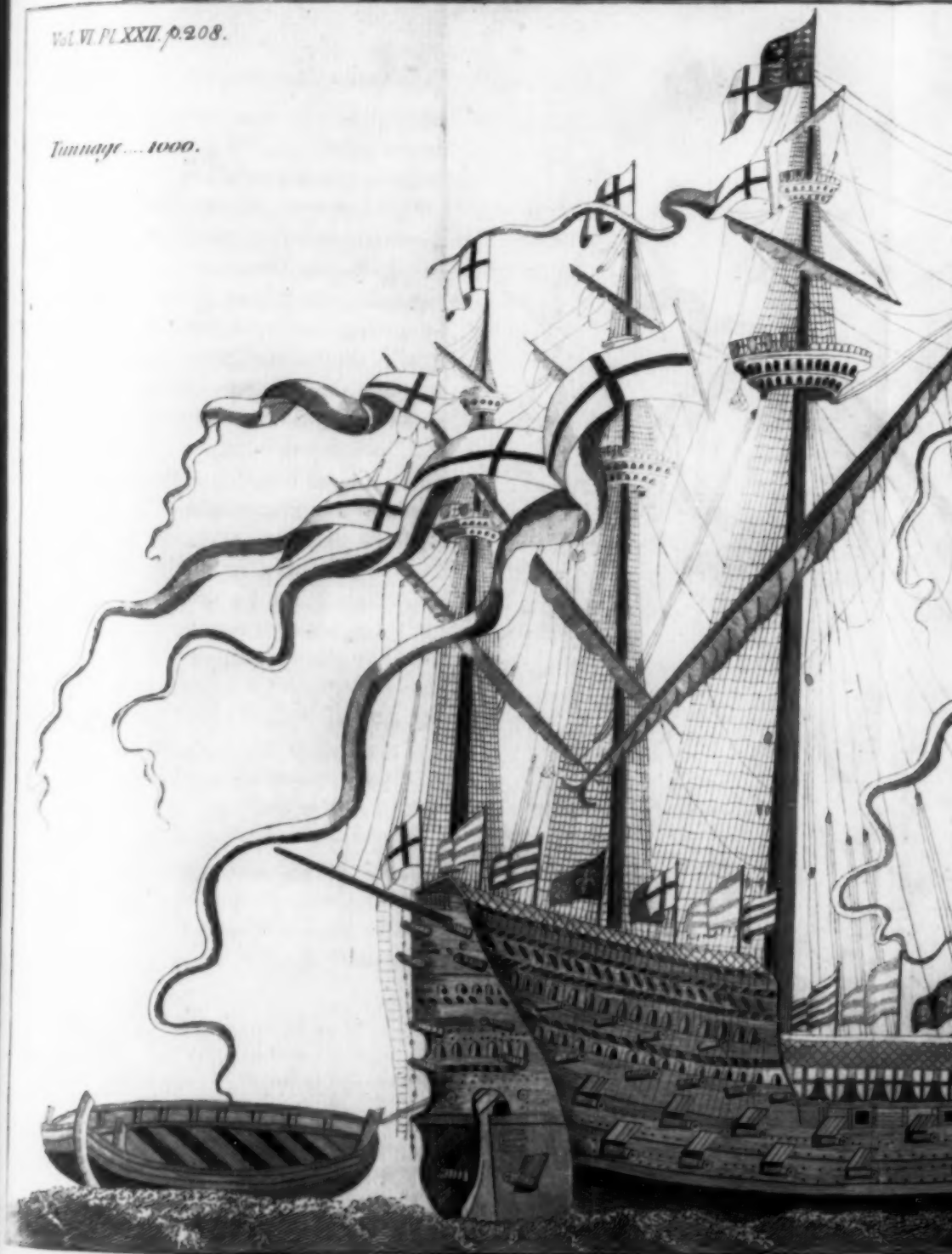
<i>Soldiers.....</i>	<i>349</i>	<i>} 700</i>
<i>Mariners.....</i>	<i>301</i>	
<i>Gunners.....</i>	<i>50</i>	

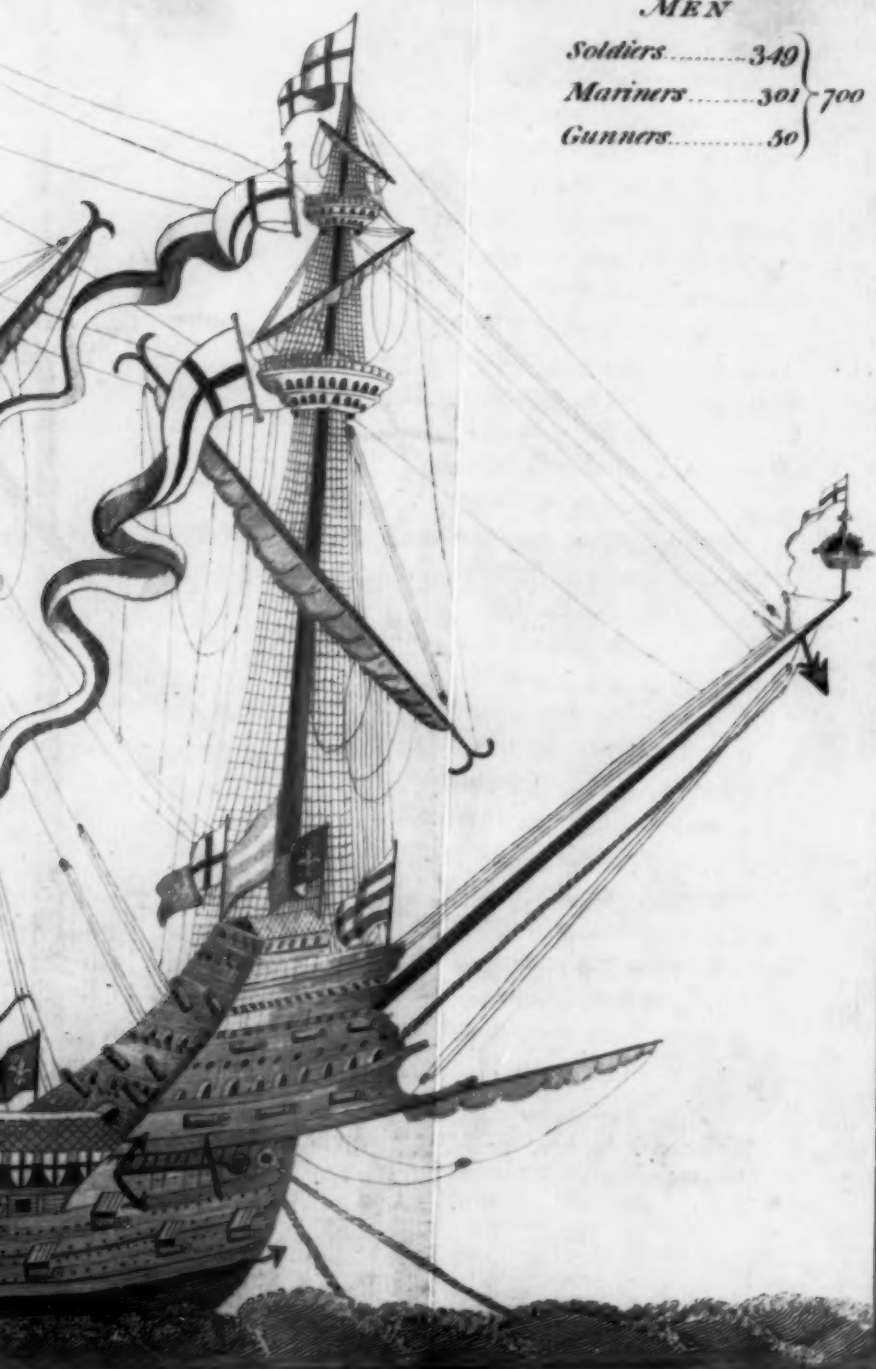


*The Ship HARRY GRACE a DIEU from an Original Drawing preserved in*

*Vol. VI. Pl. XXII. p. 208.*

*Tonnage ... 1000.*









roduced as a supporter of the royal arms earlier than the reign of king James I.\*

THIS famous ship being at Woolwich, on the 27th of August, 1553, the first year of queen Mary, by the carelessness of the mariners took fire, and was totally consumed.

SOON after the death of Henry VIII. a commission issued for an inventory to be taken of all his effects of every kind: a list of the names of the king's ships and vessels then in being, together with an account of the tunnage, the stores and ammunition of every particular ship, and the number of men carried by each of them, being thereupon returned, is preserved in Mr. Bran-

These rolls were kept in the Royal Library until the year 1680, when king Charles II. presented the first and third of the rolls to Samuel Pepys, esq, then secretary to the Admiralty; the second roll being afterwards found was remaining in 1690 in the Royal Library at St. James's, which library was given by King George II. to the British Museum; but this roll probably did not accompany that collection, it not being now to be found in that valuable repository of useful knowledge.

\* It is not improbable, from this circumstance, that the ship engrated by T. Allen was a ship of king James I. a description of one of which is thus given in Stowe's Chronicle †. "This year, 1610, the king builded  
"a most goodly shippe for warre, the keele whereof was an hundred and  
"fourteen foote long, and the crosse beam was forty foure foote in length; she will  
"carry threescore and foure pieces of great ordinance, and is of the burden of 1400  
"tonne. This royal ship is double built, and is most sumptuously adorned within  
"and without with all manner of curious carving, painting, and rich gilding, be-  
"ing in all respects the greatest and goodliest ship that ever was builded in Eng-  
"land; and this glorious ship the king gave unto his son Henry prince of Wales;  
"and the 24th of September the king, the queen, the prince of Wales, the duke  
"of York, and the lady Elizabeth, with many great lords, went unto Woolwich  
"to see it launched; but because of the narrowness of the dock it could not then  
"be launched; whereupon the prince came the next morning by three of the  
"clock, and then at the launching thereof the prince named it after his owne  
"dignity, and called it *The Prince*. The great workmaster in building this  
"ship was Master Phynies Pet, some time Master of Art of Emanuel colledge,  
"Cambridge."

† P. 996.

der's valuable MSS. abovementioned, and is from thence hereto subjoined, Appendix, N<sup>o</sup> IV.

THE manner of building ships at the period of time we have been speaking of, was probably borrowed from the Venetians, the then great naval power in Europe; the vast height of the ship above the water's edge, the great length of the masts and the ornaments and decorations over the whole, seeming to be much more adapted to the stillness of the Adriatick and the Mediterranean seas, than to the rough boisterous ocean of the northern parts of Europe.

I OUGHT to apologize for having taken up so much of the time of the Society, but the subject appeared to me to be curious and interesting; and if the authorities I have here collected will tend to throw any lights upon the antient state of the English navy, or be the means of inducing gentlemen of greater practical knowledge than myself to investigate that obscure subject, the pains I have taken in making these researches will be amply compensated.

A P P E N D I X, N° I.

Forma de providenciis, &c. pro passagio apud Plymmuth in Vascon' faciend' p Johem Devery \*.

**L**A FORME coment Sire Johan Devery clerc q'est assigne pur hastier et surveer la Navye q'est mandez devenir a Plymmuth a les Uttaves de la Trinite p'schein avenir pur les busoignes n're Seignur le Roi vers la Duchee de Guyenne se doit port' et aver en meisme le busoigne. Primerement il doit aler a Suthampton, et de illoeques devers le West as touz les portz ou le niefs ferront mandez, a surveer qe les niefs qe sont mandez soient prestes et assignez pur cele busoigne des pluis suffisantez qe purront estre trovez dedeinz les portz a ce nomez; et que chescune de celes niefs eit son attil bien et plein, come des auncres, cordes, et cables, et autres choses necessaries et covenables; et qe totes celes niefs soient garnyes de bonez gentz en la forme souz escripte; c'est assevoir, Qe une nief q'est de 240 toneaux, avera 60 homies mariners; une nief de 200, 50 homies; une nief de 160 ou 180, 40 homies; une nief de 140, 35 homies; une nief de 120, 28 homies; une nief de 100, 26 homies; une nief de 80, 24 homies; et une nief de 60, 21 homies. Et fait a remembrer, Qe chescune nief de 180 toneaux, et de pluis graunt charge, avera un mestier et deus conestables, qe ferront contenuz dedeinz le nombre des mariners; et chescune nief de 160 toneaux, et de meyndre charge, avera une mestier et un conestable, qe ferront contenuz dedeinz le nombre des mariners. Item le dit Sir Johan se doit aviser od les bones gentz des Portz, ou il vendra a pluis pres q'il purra queux pountz et clayes et rasteux et autres choses ferront covenables et busoignables pur chescune neef solonc ce qe eles soient grauntz et petites; et q'eles se deveront charger ou de gentz ou des chivaux, si que le dit Sire Johan puisse aviser les Viscontes q' sont chargez de purveer totes choses qe ferront covenables et busoigna-

\* Rot. Pat. 17 Edw. II. m. 13.

bles pur les dites neef. Item le dit Sire Johan doit exciter et charger les Viscontes et touz ceux qe se devient meller de ceste busoigne, de la hastier par totes les covenables maneres q'ils savoront ou purront, si qe les dites neefs bien appareillies at adreseees soient as dites jour et lieu en totes maneres prest et appareillies a cygler; et doit le dit Sire Johan aviser p ses tres le Chauncellier ou le Tresorier de l'exploit q'il avera fait si lovent com il purra et mestier serra, et de defaute si qu'il trouast en ministre ou autre si qe eux puissent ordeiner et adrester la busoigne et les defautes, si nulles soient, solonc ce q'il verront qe soit au profit le Roi. Et fait assavoir qe les mariners ferront paie de lour gages devant la mayn pur 20 jours pfeheinz suanz apres qe eux comencent de cygler playn journey; de quels temps les Viscontes des leus ou le dit Johan certefient le Chauncellier ou le Tresorier a tiel temps qe eux puissent ordeyner le payement. Et auxint certefient les avanditz Chauncellier ou Tresorier des nounes et des mestiers des niefs, et de nombre des mariners, et de quel Havene de els soient, pur plus certeynement payement faire, et meilleur purveance faire de leur vitailles en temps.



# A P P E N D I X, N° II.

A Roll of King Edward the Third's Fleet before Calais.  
Extant in the Great Wardrobe \*.

## The South Fleet.

The King's	Ships	25	Winchelsea,	Ships	21
	Mariners	419		Mariners	596
London,	Ships	25	Weymouth,	Ships	15
	Mariners	662		Mariners	263
Milford,	Ships	2	Lyme,	Ships	4
	Mariners	24		Mariners	62
Hoo,	Ships	2	Seaton,	Ships	2
	Mariners	24		Mariners	25
Maidstone,	Ships	2	Sydmouth,	Ships	3
	Mariners	51		Mariners	62
Hope,	Ships	2	Exmouth,	Ships	10
	Mariners	39		Mariners	193
New Hyth,	Ships	5	Teymouth,	Ships	7
	Mariners	49		Mariners	120
Margate,	Ships	15	Dartmouth,	Ships	31
	Mariners	160		Mariners	757
-----	Ships	2	Portsmouth,	Ships	5
	Mariners	22		Mariners	96
Feverham,	Ships	22	Plymouth,	Ships	26
	Mariners	504		Mariners	603
Dover,	Ships	16	Loo,	Ships	20
	Mariners	336		Mariners	315
Wight,	Ships	18	Yalm,	Ships	2
	Mariners	220		Mariners	47

\* Hackluyt's Voyages.

Foy,

Foy,	Ships	47	Limington,	Ships	9
	Mariners	770		Mariners	159
Bristol,	Ships	22	Pool,	Ships	4
	Mariners	608		Mariners	94
Tinmouth,	Ships	2	Wareham,	Ships	3
	Mariners	25		Mariners	59
Hastings,	Ships	5	Swanzey,	Ships	1
	Mariners	96		Mariners	29
Romney,	Ships	4	Ilfra Combe,	Ships	6
	Mariners	65		Mariners	96
Rye,	Ships	9	Padstow,	Ships	2
	Mariners	156		Mariners	27
Hieth,	Ships	6	Polerman,	Ships	1
	Mariners	122		Mariners	60
Shorcham,	Ships	20	Wadworth,	Ships	1
	Mariners	329		Mariners	14
Seaford,	Ships	5	Caerdiff,	Ships	1
	Mariners	80		Mariners	51
Newmouth,	Ships	2	Bridgewater,	Ships	1
	Mariners	18		Mariners	15
Hammowle Hook,	Ships	7	Caermarthen,	Ships	1
	Mariners	117		Mariners	16
Hoke,	Ships	11	Cailchefworth,	Ships	1
	Mariners	208		Mariners	12
Southampton,	Ships	21	Mulbrook,	Ships	1
	Mariners	576		Mariners	12

Total of the South Fleet Ships 493  
Mariners 9630

## The North Fleet.

Bamburg,	Ships	1	Hull,	Ships	16
	Mariners	9		Mariners	466
Newcastle,	Ships	17	York,	Ships	1
	Mariners	314		Mariners	9
Walwich,	Ships	1	Ravenspurgh,	Ships	1
	Mariners	12		Mariners	27
Hartlepool,	Ships	5	Woodhouse,	Ships	1
	Mariners	145		Mariners	22

Stolkhithe,

*a second antient Picture in Windsor Castle.*

215

Stolkhithe,	Ships	1	Geford,	Ships	13
	Mariners	10		Mariners	303
Barton,	Ships	3	Harwich,	Ships	14
	Mariners	30		Mariners	283
Sunfleet,	Ships	1	Ipswich,	Ships	12
	Mariners	11		Mariners	239
Saltfleet,	Ships	2	Mersey,	Ships	1
	Mariners	49		Mariners	5
Grimby,	Ships	11	Brickelsea,	Ships	6
	Mariners	171		Mariners	61
Wainfleet,	Ships	2	Colchester,	Ships	5
	Mariners	49		Mariners	90
Wrangle,	Ships	1	Whitbanas,	Ships	1
	Mariners	8		Mariners	17
Lynn,	Ships	16	Malden,	Ships	2
	Mariners	382		Mariners	32
Blackney,	Ships	2	Derwen,	Ships	1
	Mariners	38		Mariners	15
Scarborough,	Ships	1	Boston,	Ships	17
	Mariners	19		Mariners	361
Yarmouth,	Ships	43	Suinumber,	Ships	1
	Mariners	1075		Mariners	32
Dunwich,	Ships	6	Barton,	Ships	5
	Mariners	102		Mariners	91
Orford,	Ships	3			
	Mariners	62			

Total of the North Fleet Ships	217
Mariners	4521

Total of all the English Fleet Ships	700
Mariners	14151

APPEN-

## A P P E N D I X, N° III.

Furniture of the *Harry Grace de Dieu*, from the Original MS.  
in the Pepysian Library in Magdalen College, Cambridge.

Gonnes of Brasse.				Gonnes of Yron.			
Cannons	-	-	IIII	Port Pecys	-	-	XIIII
Di. Cannons	-	-	III	Slyngs	-	-	IIII
Culveryns	-	-	IIII	Di. Slyngs	-	-	II
Di. Culveryns	-	-	II	Fowlers	-	-	VIII
Sakers	-	-	IIII	Baessys	-	-	LX
Cannon Perers	-	-	II	Toppe peces	-	-	II
Fawcons	-	-	II	Hayle Shotte Pecys	-	-	XL
				Hand Gonnes complete	-	-	C

Gonne Powder.			Shotte of Yron.			
		Lbs.	For Cannons	-	-	C
Serpentyn Powder in Barrels	II		For Di. Cannons	-	-	LX
Corn Powder in Barrels	VI		For Culveryns	-	-	CXX
			For Di. Culveryns	-	-	LXX
			For Sakers	-	-	CXX
			For Fawcons	-	-	C
			For Slyngs	-	-	C
			For Di. Slyngs	-	-	L
			Crosse barre Shotte	-	-	C
			Dyce of Yron for Hayle	}		IIII <sup>m</sup>
			Shotte			





APPENDIX, N<sup>o</sup>. IV.

The Names of all the King's Majesty's Shippes, Gallies, Pynnasses, and Rowbarges; with their Tonnage and number of Soldiers, Mariners and Gunners; as also the Places where they now be.

5 Jan. Anno R. R. Ed. VI. primo.

## Shippes at Wolwidge.

**THE** *Henry Grace a Dieu*, 1000 tons. Souldiers 349. Marriners 301. Gunners 50. Brass Pieces 19. Iron Pieces 103.

## At Portsmouth.

	Tons.	Soldiers, &c.	Brass Pieces.	Iron Pieces.
The Petir	600	400	12	78
The Mathewe	600	300	10	121
The Jefus	700	300	8	66
The Pauncy	450	300	13	69
The Great Barke	500	300	12	85
The Lesle Barque	400	250	11	98
The Murryan	500	300	10	53
The Shruce of Dawlke	450	250		39
The Cristoffer	400	246	2	51
The Trynytie Henry	250	220	1	63
The Swepe Stake	300	230	6	78
The Mary Willoughby	140	160		23

## Gallies at Portsmouth.

T' Anne Gallant	450	250	16	46
The Sallamander	300	220	9	40
The Harte	300	200	4	52
The Antelope	300	200	4	40

The

*a second ancient Picture in Windsor Castle.*

119

	Tons.	Soldiers, &c.	Brass Pieces.	Iron Pieces.
The Swallowe	240	100	8	45
The Unycorne	240	140	6	39
The Jeannet	180	120	6	35
The Newbarke	200	140	5	48
The Greyhounde	200	140	8	37
The Teager	200	120	4	39
The Bulle	200	120	5	42
The Lyone	140	140	2	48
The George	60	40	2	26
The Dragone	140	120	3	44

*Pynnasses at Portesmouth.*

The Fawcone	83	55	4	22
The Blacke Pynnes	80	44	2	15
The Hynde	80	55	2	26
The Spannythe Shallop	20	26		7
The Hare	15	30		10

*Row-barges at Portesmouth.*

The Sonne	20	40	2	6
The Cloud in the Sonne	20	40	2	7
The Harpe	20	40	1	6
The Maidenheade	20	37	1	6
The Gellyflowre	20	38		
The Ostredgefether	20	37	1	6
The Roofe Slipe	20	37	2	6
The Flower de lewce	20	43	2	7
The Rose in the Sonne	20	40	3	7
The Port quilice	20	38	1	6
The Fawcon in the fetherlock	20	45	3	8

*Deptford Strande.*

The Graunde M <sup>rs</sup>	450	250	1	22
The Marlyon	40	50	4	8

F f 2

The

	Tons.	Soldiers, &c.	Brass Pieces.	Iron Pieces.
The Galley Subtill, or } Roo Galley	200	250	3	28
The Brickgentyne	40	44	3	19
The Hoyebarke	80	60		2
The Hawthorne	20	37		3
In Scotland.				
The Mary Hamborow	400	246	5	67
The Phoenix	40	50	4	33
The Saker	40	50	2	18
The Doble Roofe	20	43	3	6

Total Number of Ships, &c.	Tons.	Nombre of Men.
53	6255	Soldiers 1882 Maryners 5166 Gonners 759

Row-pieces at Portsmouth.

0877

20	40	The Sonne
20	40	The Cloud in the Sonne
20	40	The Harpe
20	37	The Maidenheads
20	37	The Gallyflower
20	37	The Offspring
20	37	The Rose Ship
20	43	The Flower de towce
20	40	The Rose in the Sonne
20	38	The Port quille
20	42	The Falcon in the

Depot of Standards.

XXV. 04

The Grande M.  
The Marston



# XXV. *On the Cubical Contents of the Roman Congius.*

*In a Letter from Henry Norris, Esq.*

Read July 5, 1781.

DEAR SIR,

I HAVE the pleasure of your sentiments on the little Essay I made to ascertain the cubical contents of the Roman Congius, a copy whereof, in which I have set my name as author, is herewith transmitted to you; and if it may be thought worthy the notice of the Antiquarian Society, do request the favour of you to convey it to them.

Dr. Bernard, in his treatise of Weights and Measures, speaks very highly of Mr. Greaves, *accuratissimus indagator*; yet does not follow him, either in the measure of the standard Roman foot, or the weight of the pounds inscribed on the Congius.

Mr. Greaves's account of his measuring the Colotian foot on the monument of Cossutius, and comparing it with that inscribed on a marble in the capitol, and that he found them both to agree most exactly; and that they agreed also with some very perfect antient brass feet found among the ruins of old Rome, as well as with the marble squares in the pavement of the Pantheon; from all these concurring circumstances he gives his opinion, that the Colotian foot is the true Roman standard foot, 967 thousand parts of the English foot; yet the doctor takes it to

to be 970, against all the foregoing evidence to the contrary. So also contrary to clear evidence, as it seems to me, the doctor does not allow those pounds inscribed on the Congius to be standard Roman pounds, but pounds of lighter gravity, which he calls Vespasian pounds.

THIS put me on examination, to discover where truth lay, as far as figures would lead thereto. The result you have herewith. If it tends to establish it, it seems common justice only to the memory of Mr. Greaves to communicate it to the Gentlemen of the Antiquarian Society, which I request you to do; and am,

Dear Sir,

Woodford, Essex,  
April 2, 1781.

Your sincere Friend and Servant,

HENRY NORRIS.

AN ESSAY, to ascertain the cubical contents of the Roman Congius; deduced from those particulars which the late Mr. John Greaves (Astronomical Professor at Oxford) on his examination thereof in 1639, hath given us in his discourse on the Roman foot and Denarius. Republished in 1737, by the late Rev. Dr. Birch. By Henry Norris.

In order thereto, it is necessary to state the facts whereon the deductions are founded.

FROM Mr. Greaves's accurate examination it seems quite clear that the true standard Roman foot is equal to 967 thousand parts of the standard English foot. Of course,

12 Roman Inches are equal to 11,604 English inches, and

12 English Inches are equal to 12,409 Roman inches; for,  
as 967 : 1000 :: 12 : 12,409 Roman inches. Consequently, a  
cube

cube whose sides consist of 12,409 Roman square inches, must be equal in magnitude to another cube, whose sides consist of 12 English square inches; and as their magnitudes are equal, so also must be their cubical contents.

THE cube of 12,409 Roman inches is 1910,778 Roman cubic inches, and the cube of 12 English inches is 1728 English cubic inches. Then 1910,778 Roman cubic inches are equal to 1728 cubic inches English.

By Mr. Greaves's experimenting, it seems very clear, that the standard Roman pound of 12 ounces was equal to 5256 Troy grains English.

In the Philosophical Transactions we find that 1728 cubic inches English of water, have been experimented to weigh 1000 ounces avoirdupois, and that the avoirdupois ounce is equal to 437½ troy grains. Then 1728 cubic inches English of water weigh 437500 troy grains English. And as 1728 English cubic inches are equal to 1910,778 Roman cubic inches, so 1910,778 Roman cubic inches of water must weigh 437500 troy grains English, which, divided by 5256, gives 83,238 Roman pounds for the weight of water.

THESE facts being stated, shall now proceed.

THE Roman congius, by its inscription, held 10 Roman pounds of water. Then as 83,238 Roman pounds : 10 Roman pounds :: 1910,778 Roman cubic inches : 229,556 Roman cubic inches for cubical contents of the Congius in Roman measure. And, as 1910,778 Roman cubic inches : 229,556 Roman cubic inches :: 1728 English cubical inches : 207,597 English cubical inches for cubical contents of the Congius in English measure; and comparing the said deduction with Mr. Greaves's account of measuring the Congius with millet grain, by English quarts, pints, and fractional parts of a pint, the difference is so small,

small, as serves rather to illustrate the deduction by the total weight of water.

HE says, the Congius contained 3 quarts 1 and  $\frac{1}{2}$  pints of our wine measure, and of our corn measure 3 quarts and about  $\frac{1}{4}$  of a pint; but he does not say what were the cubical contents of the wine and the corn gallons, by which he measured the Congius in 1639.

HOWEVER, we find the legal standards were confirmed in 1688, to be, the wine gallon 231 cubic inches, the corn gallon 268,2 cubic inches, commonly called Winchester measure, from Henry the Seventh's bushel. Then, according to our wine measure, the Congius was 205,734 cubic inches English; for as 8 pints: 7  $\frac{1}{2}$  pints:: 231 cubic inches: 205,734 cubic inches English. But, according to our corn measure, the Congius was 206,212 cubic inches English; for as 8 pints: 6  $\frac{3}{4}$  pints:: 268,2 cubic inches English: 206,715 cubic inches English, for cubical contents of the Congius in English measure.

AND farther, if we also compare the account given by Mr. Greaves, of Villalpandus's experimenting the weight of water contained in the Congius, to be 10 Roman pounds exact, from whence the side of the cube of the Roman Amphora (of 8 Congii) was deduced, and by Mr. Greaves given to be 986 thousand parts of the standard English foot, equal to 11,832 inches English; though this cannot be taken for the true measure of the Roman foot, as Villalpandus thought it to be, contrary to better evidence; yet it must be admitted, as a good deduction of the side of the cube of the Amphora of 8 Congii.

THE Congius was not of a cubic form; but supposing it had been so, as it contained  $\frac{1}{8}$  part of an Amphora, the side of such cubic Congius, must have been just half the side of the cube of the Amphora. Then the half of 986, is 493 thousand parts of



the English foot, equal to 5,916 inches English; for as 1000 parts : 493 :: 12 inches : 5,916 inches English, the cube whereof is 207,054 cubic inches for cubical contents of the Congius in English measure, which very nearly agrees with the foregoing deduction from total weight of water, 207,597 cubic inches English, which will appear to be the most exact cubical contents of the Congius; for as it contained 10 Roman pounds, or 52560 troy grains English of water, say, as 1728 cubic inches English : 207,597 cubic inches English :: 437500 troy grains : 52560 troy grains. Whereas 207,054 cubic inches will give but 52423 troy grains. For as 1728 cubic inches : 207,054 cubic inches :: 437500 troy grains : 52423 troy grains; the cubic contents of the Congius in Roman measure is before shewn to be 229,556 Roman cubic inches, which gives exact 10 Roman pounds weight of water for contents; for as 1910,778 Roman cubic inches : 229,556 Roman cubic inches :: 83,238 Roman pounds : 10 Roman pounds, the weight of water contained in the Congius.

UPON the whole, the fair conclusion seems to be, that

In cubical contents,

The Roman Congius was { 229,556 Roman cubic inches.  
207,597 English cubic inches.

The Amphora was { 1836,448 Roman cubic inches.  
1660,776 English cubic inches.

As to Dr. Bernard's supposition, in his treatise 1683, *De Mensuris et Ponderibus*, about Vespasian pounds, of lighter gravity than the standard Roman pound weight; as if the Emperors, by reducing the weight of the silver Denarii, had reduced the gravity of their pound weight; common experience contradicts such supposition; and Mr. Greaves's account of Villalpandus's

experimenting the weight of water plainly disproves the Doctor's supposition, shewing clearly the pounds inscribed on the Congius were of same gravity as the standard pound weight in consular times, when 84 silver denarii were coined out of the pound weight of silver.

THE Emperors made their coin lighter, that the same weight of silver should pass for 96 denarii, which in consular times passed for 84 only; an example that has, since that time, been followed also in other nations.

Woodford,  
April 5, 1781.

**XXVI. *Some observations on Doctor Bernard's cubic contents of the Roman Amphora.* By Henry Norris, Esq.**

Read November 22, 1781.

**H**E states the amphora to be a quadrantall or cube of a Roman foot, which he makes equal to 970 thousand parts of the English foot, that is, 11,64 inches English; and gives the amphora to be in cubical contents, 1728 Roman cubic inches, and in English measure to be 1577,098 English cubic inches.

If the doctor had attended to and examined the two experiments, made different ways; the one made by Villalpandus, to deduce the side of the amphora's cube from the weight of water it contained, and show its cubical contents in Roman measure; the other made by Mr. Greaves, to find how many wine pints or corn pints, English measure, of millet grain, were contained in the Roman congius, the doctor might have discovered that the cubical contents he gives could not be right either in Roman or the English measure.

VILLALPANDUS's experiment, by weight of water contained in the amphora, deduces the side of its cube to be 986 thousand parts of the English foot. The doctor states it 970, which he calls a Roman foot of 12 Roman inches, for the side of the cube.

Now taking the doctor's Roman foot 970, if we state, as the doctor's side of the cube, 970 is to, 986 Villalpandus's side of

G g 2

the

the cube, so must 12 Roman inches be to 12,198 Roman inches for the real side of the cube of the amphora.

THE cube of 12 inches is 1728 Roman inches as the doctor states it, but the cube of 12,198, is 1814,955 Roman cubic inches for cubic contents of the amphora. This shows the doctor's statement to be short of the real quantity of Roman cubic inches.

AND this is farther confirmed by the other experiment of Mr. Greaves in measuring the Roman congius with millet grain, and finding it to be  $7\frac{1}{4}$  English wine pints, or  $6\frac{1}{2}$  English corn pints, and as 8 congii made an amphora, then the amphora contained 57 English wine pints, or  $49\frac{1}{4}$  English corn pints.

OUR wine gallon of 8 pints is 231 cubic inches English, and our corn gallon is 268,2 cubic inches English in contents. Then say as 8 pints : 57 :: 231 cubic inches : 1645 $\frac{1}{4}$  cubic inches for cubic contents of the amphora in English wine measure, and by our corn measure, say as 8 pints :  $49\frac{1}{4}$  :: 268,2 cubic inches : 1653 $\frac{1}{4}$  cubic inches for cubic contents of the amphora in English corn measure.

FROM these measurements of the amphora with millet grain, particularly the corn measure, the cubical contents of the amphora by Villalpandus's experiment is illustrated; for by his deduction it is 1656,432 English cubic inches, for as 1000 parts : 986 :: 12 inches : 11,832 English inches for side of the amphora the cube whereof is 1656,432 English cubic inches, and by our corn measure it is 1653,875 English cubic inches.

THESE observations show the doctor to be mistaken in his given quantity for cubical contents of the amphora, both in Roman inches and in English inches.

THE doctor does allow the standard Roman pound to be equal to 5256 troy grains as Mr. Greaves found it to be, but though Mr. Greaves shews clearly that the inscription on the congius



congius of 10 pounds was standard Roman pounds, yet the Doctor does not allow that, but calls them Vespasian pounds of lighter gravity; for had he admitted them to be standard pounds, the cubic contents he assigns to the amphora of 1577,098 English cubic would not give the 80 Roman standard pounds weight of water which the amphora did contain. He says the amphora held of Roman pounds 76,08, but of Vespasian pounds (*ut jam diximus*) 80 pounds water. Now as he allows the Roman pound to be equal to 5256 troy grains English, it is plain he makes his Vespasian pound to be but 4998,456 English troy grains.

AND although it clearly appears from Mr. Greaves that the standard Roman foot was but 967 thousand parts of the English foot, yet the Doctor gives it 970, and he gives that for the side of the cube of the amphora, although the deduction by weight of water and the measurement with millet grain, prove it to be greater.

TAKING for granted that the amphora (upon mere assertion and without proof) was a cube of a Roman foot as the Doctor has done; there was no other way of getting out of the difficulty, but the way he has taken to state the Roman foot at 970, and to suppose a Vespasian pound of 4998,456 troy grains. Yet even that does not remove a main difficulty; for as he states the amphora to be 1577,098 English cubic inches, consequently the congius should be but 197,137 cubic inches, whereas the measurement with millet grain by Mr. Greaves as before observed shews the congius to contain  $6\frac{1}{2}$  pints of our corn measure, consequently the cubic contents of the congius must be 206,212 English cubic inches, and by our wine measure it contained  $7\frac{1}{2}$  wine pints which gives 205,734 cubic inches English for its contents, as stated in my former paper. The Doctor in his account of the congius does not give the cubical

cubical contents of it, probably because it was not of a cubic form, but by his contents given of the amphora, it is plain it should have been 197,137 cubic inches, and by Mr. Greaves's measurement with millet it is more plain that the Doctor's account cannot be right, as the congius really was of greater capacity by about 9 cubic inches, or  $\frac{1}{11}$  part. So that in every way of examination it appears that the Doctor's statement must be mistaken. But farther, Mr. Greaves caused an exact cube to be made to the size of 967 thousand parts of our English foot, that is 11,604 inches English, the cube whereof is 1562,511 cubic inches English, and this cubic vessel would not contain more than  $7\frac{1}{2}$  congii, whereas the amphora should hold 8 congii, this proves a cube of that dimension to be smaller than the amphora was.

DR. BERNARD gives the side of the amphora at 970 thousand parts of our foot, that is 11,64 inches English, the cube whereof is 1577,098 cubic inches, which will not hold 8 congii, for as  $1562,511 : 1577,098 :: 7,500 \text{ congii} : 7,570 \text{ congii}$ . This proves also a cube of Dr. Bernard's dimension would not contain 8 congii, therefore could not be the cube of the amphora.

ACCORDING to Villalpandus's experiment the side of the amphora's cube was 986 thousand parts of our foot, that is 11,832 inches, the cube whereof is 1656,432 English cubic inches; a cube of this dimension will hold 8 congii very nearly, for as  $1562,511 : 1656,432 :: 7,500 \text{ congii} : 7,950 \text{ congii}$ . But taking the cubic contents of the amphora, as stated or shewn to be by my former paper, 1660,776 cubic inches English; a cube of that size will hold 8 congii more nearly, for as  $1562,511 : 1660,776 :: 7,500 \text{ congii} : 7,971 \text{ congii}$ . Thus the cubical contents of the amphora is proved to be 1660,776 English cubic inches, if figures may be relied on to speak truth.

**XXVII. *Sequel to the Observations on Ancient Castles.***

**By Edward King, Esq.**

Read January 17, 1782.

*To the Rev. Doctor Milles, Dean of Exeter, President of the  
Society of Antiquaries.*

SIR,

**P**ERMIT me now to communicate to the Society of Antiquaries, the sequel of such observations as I have had an opportunity to make with regard to the structure of ancient castles; a subject, which, however ill I may have succeeded in treating of it, appears to me capable of throwing considerable light on the history of our country; and therefore I cannot but still endeavour to make every effort in my power to elucidate it; wishing my attempts to be a means of exciting others to make more successful enquiries.

I DID not venture to lay my first conclusions before the Society, till a variety of repeated observations had assured me I was right in my general outlines; and in no danger of substituting rash conjectures, and hasty surmises, in the room of solid satisfactory deductions: and I presume, on the present occasion,

to add these papers, in consequence only of that full conviction of the truth of the remarks they contain, which long experience, repeated investigation, and a patient perseverance in an unbiaſſed attention to proper researches, has authorized me to adopt.

For ſome time, I thought it would be impertinent to add more on a ſubject, which to many perſons might appear trivial; and therefore I ſuppreſſed ſome additional obſervations I had made on the caſtle at Canterbury, on a ſecond more minute inſpection, (when I had the aſſiſtance of workmen, and ladders, to examine that building with much more accuracy,) although they tended to confirm, ſtill more ſtrongly, all that had been advanced in my former paper. And I forbore alſo to give any answer to ſome few objections, that had occurred to perſons not fully acquainted with theſe kind of researches. But in the courſe of repeated ſurveys which I continued to make merely for my own ſatisfaction, ſo much freſh matter has come to light, tending to illuſtrate ancient manners; ſo many ſtrong confirmations of my former obſervations have occurred; and there appeared ſo many additional inſtances of ancient ingenuity, caution, and ſkill, deſerving of notice, though employed on modes of defence and preſervation, which (from the unavoidable change of cuſtoms and correſponding ideas) are already become quite obſolete; that I could no longer forbear endeavouring to preſerve the remembrance of them, by the aſſiſtance, and under the protection of a SOCIETY, inſtituted to tranſmit ſuch memorials to future ages; when moſt probably, from the preſent decaying ſtate of theſe ſtructures, there can be no other means of obtaining information concerning theſe matters, nor any other opportunity afforded of becoming acquainted with many curious facts neceſſary to preſerve right ideas



ideas of former times, than what they shall derive from the labours of the present age.

My former Paper was confined merely to a general explanation of the manner of fortifying those remarkable parts of Ancient Castles and Strong-holds, called *Keeps*, and *Master-towers*; without any great regard to the different ages in which any of them were constructed.

BUT, as the gradual intermixture and decay of Roman Art, and the progress and improvement of Northern, Saxon, and Norman Arts, are curious circumstances that occur to observation, on a fuller survey, I must now unavoidably make the different *Æras* in which these Buildings were erected, the first object of attention; as far as there is a possibility of tracing-out those different periods with any degree of precision: and cannot but carefully remark the successive gradual changes introduced in the mode of accommodation and defence. After which, the almost imperceptible transition, made by the Ancient Chieftains of this land, from a residence in formidable, stately, inconvenient Strong-holds, to that in Embattled mansions (Embattled without use, and almost without meaning); and at length to convenient and elegant Palaces, abounding with the luxuries of life; is a curious speculation, which on this occasion will unavoidably occur to the observation of every Antiquary; and which therefore I shall make the concluding part of the contents of this paper.

THE notices left us by Camden, Leland, Holinshed, Stow, and various other writers on the subject, concerning the building of several of the Castles mentioned by them, appear, on exact examination, to be very imperfect. They speak with precision enough of grants of those Mansions; of reparations; and of new erections; but it is very clear, that, in many instances, the original Buildings were in being long before the times they speak of; and that they had neither seen, nor heard of, any

satisfactory records, concerning the respective ages in which they were first constructed.

SOME of these Buildings are still existing almost entire, and will speak for themselves, better than any fragments relating to them, extracted from any ancient historians.

AMONGST these, two more especially deserve notice; Connisborough in Yorkshire; and Castleton in Derbyshire; the antiquity of whose present Buildings will, upon examination, appear vastly greater than has in latter ages been at all conceived.

OF Connisborough, Camden only says, that it is an old Castle, called in British *caer conan*; situated upon a rock; whither (after the battle of Maisbelly, when Aurelius Ambrosius had routed the Saxons, and put them to a disorderly flight) Hengist their general retired, to secure himself; and a few days after took the field again, against the Britains, who pursued him; with whom he engaged a second time, which proved fatal both to himself and his army: for the Britains cut off many of them, and taking him prisoner, beheaded him (if the authority of the British History is to be preferred in this matter, before that of the Saxon Annals, which report him to have died a natural death, being worn out and spent with fatigue and business). But be that as it may; sure enough it is, that a mount just before the gate has been always deemed his Sepulchre, in consequence of a constant tradition.

THIS Castle was also the birth-place of Richard Plantagenet duke of York, grandson to king Edward III<sup>d</sup>, and grandfather to king Edward IV<sup>th</sup>, who tampering too soon for the crown, was beheaded by king Henry V<sup>th</sup>.

THE Castle here, says Camden, *batb been* a large strong-built pile; whereof the out walls are standing, situate on a pleasant ascent from the River, but much overtopped by an  
high

high hill, on which the Town stands; before the gate is the agger, by tradition said to be the burying place of Hengist\*.

FROM hence therefore, on the whole, it clearly appears at least, that there was a fortress *here* in the time of Hengist; and although Camden, and his editor, seem to think that the original one was afterwards destroyed, and rebuilt, we shall soon find reason to believe that in such a conclusion they were mistaken.

IT is remarkable enough, that in the old first editions of Camden it is called *conines-borough*—which if we pay any regard to ancient etymologies, and give credit to the authority of Verstegan† (who says all places called *burg*, or *bury*, or *borough*, were places *fortified*), will lead us to understand this to have been named in *Saxon times*, the *kings fortress*, or the *kings keep*, or in other words the *royal palace*; as before in British times, its name *caer conan* signified the *royal city*.

WE may fairly conclude, therefore, that although many British and Saxon fortifications were merely entrenchments of earth, yet that *here* was in the earliest times some building, and strong place of residence; especially as an ancient tradition has been preserved, and is mentioned by old historians, which says, here was a Castle that *afterwards* belonged to king Harold.

THE Conqueror bestowed it upon William de Warren, with all its privileges and jurisdictions: which are said to have been over twenty eight towns; and William de Warren, being a great builder, is commonly *supposed* to have re-edified it. But of this there is no proof; nor does any thing in the building afford the least ground for such a supposition.

Now then let the Castle speak for itself. Nothing can be more extraordinary than the appearance of this structure; nothing more unlike a Norman Castle.

\* Gibson's Camden, p. 706. 724.

† Verstegan's Antiquities, p. 211. 215. 313.

THE great court, it is true, has some resemblance of the courts of other Castles: but yet even this part of the fortress, when carefully attended to, will be found very unlike those *Ballia* that were in use after the conquest.

AN area appears walled in; which was entered by a great gate way, between two round towers, after passing a draw bridge and deep ditch; but this area has neither the regularity, nor extent, of those of the Norman Castles; nor any appearance of such additional interior buildings besides the keep, as usually are found, within the circuit of Castles constructed by that magnificent people; the greatness of whose ideas appeared in their fortresses, as well as in their churches. In short the very area of this strong-hold might just as well be compared to the Roman Castle at Richborough, as to any Norman fortress; and might as well be supposed to have been formed by a Roman general, as by William de Warren. And still more striking is the contrast with regard to the keep, or *master tower* itself.

THIS extraordinary structure stands in one corner of the area, commanding a most glorious view of the windings of the river *Dune* or *Dun*, and of the adjacent country; if any ideas of the beauty of such a scene could be conceived in those barbarous times of desolation, when this fortress was erected; and when not one single window was constructed therein so placed as to behold it. I shall endeavour to describe the particularities of the whole with as much precision as possible.

THE first thing that strikes the eye, is a very remarkable sloping part of the foundation walls, rising to a great height, like a mount; and having in many parts, in consequence of its being covered with earth and moss, the appearance of a small hill exactly of the same dimensions as the Castle itself, (see F I f e f g h,) the bottom of this sloping part appears almost circular; but higher up are seen, more fully, six vast, projecting, Buttresses, ascending in a still more steep direction, to prop and support



port the building. Modern engineers would, perhaps, call the whole a regular *Glacis*, or rather a *Talus*.

IMMEDIATELY above this sloping part, the Tower rises, perpendicularly, to a great height. Its inside forms a compleat circle; but on the outside appear six additional square turrets; which are, however, merely the continuation upwards of the buttresses just mentioned.

THE walls of this Tower are very nearly half as thick as its diameter within, which is about twenty-one feet; and some of the turrets, as they ascend towards the top, are in a very few places hollowed out, and converted into closets, which have narrow loops.

HAVING surveyed this strange appearance of the outside; the next thing that draws attention, is the ascent to the grand entrance; which is (and most probably always was) by an exceeding steep flight of deep steps (a b) on the South side, so narrow (not being, I think, much more than three feet in width) and so shallow, in the space for setting the feet on every step (whilst there is no rail to hold by, and an absolute precipice on either side), that even the going up is frightful; and the coming down, not to be accomplished without help, except by workmen accustomed to scaffolds, and the impending heights of lofty buildings.

At the top of this ascent, is a great door-way (a); very low, however, in comparison of those in Norman towers, and of very singular construction; for although there is a stone arch turned over it (in imitation probably of those which had been seen in Roman buildings), yet the nature of such an arch seems hardly to have been understood, nor was it trusted to; for directly across the diameter, and underneath it, is placed a great *transom stone*, like a beam; and the space between it and the Arch is filled

filled up with stone-work; as if to assist the Arch in supporting the wall above.

UPON the whole it makes a most grotesque compound, of the door of an ancient *Dun*; or even of an old Egyptian temple (such as those of which Norden has given us many representations), and of a Roman arch; seeming to proclaim aloud the age in which it was built, to have been a period, when a little improvement in architecture had been made, in consequence of seeing a few Roman works; but when the rude architects had not seen enough, nor been sufficiently informed, thoroughly to comprehend them\*.

ON entering the door, we find an area, in the thickness of the wall, like a little Vestibule. (See plan F. IV. a.) On one side whereof is a passage to the stair-case, which ascends not in a spiral form, as those of latter ages, but goes straight through the thickness of the wall; like the rude stair-case of an ancient Northern Dun: It is, however, well and neatly constructed; and has a noble appearance.

THIS stair-case has no communication with the room on the first floor, except through the vestibule; and therefore might be ascended without entering at all into that room.

THAT room, however, ought not to be passed by unnoticed. It is completely circular; and has no window, nor even a loophole to it. But in the centre of the floor is a round aperture, like the mouth of a well (see F. II. at b), which opens into a most dismal, dark, deep dungeon (bwt) excavated out of the midst

\* It is not to be wondered at, that the first Saxons should adopt such imperfect ideas of the strength of the Roman arch, if it be considered, that in the latter times, Roman architecture, in this country, was in so imperfect a state, that in Newport Gate, at Lincoln, there actually, was no regular *key stone* at all, to the arch; and three thin stones, seem to have been inserted, on one side, by way of wedging the whole together.

of the artificial mount, and inclosed within the sloping part of the foundation walls; and rudely vaulted over. At the bottom appears to have been a draw well; but there was no admission for light or air, except through the aperture at (b); nor could the room, in the floor of which this aperture is, have the benefit of either, when the door was shut, except by means of a similar aperture, which there must have been at (c) in the floor above.

We cannot therefore err in calling the lower of these frightful apartments, the Dungeon; and that next above, the Store Room; and the aperture, at (c), must have answered the triple purpose, of drawing up water, of drawing up stores, and of admitting air and light: for to let in which the more effectually, there is good reason to suppose that a similar aperture was left in every floor, to the very top of the castle; and the rather, because, without such, even the state apartments would be most wretchedly dark, each of them having no more than *one* window.

In other respects, however, we shall find they were highly finished, and magnificent for such a barbarous age.

The ascent of the grand stair-case, from the vestibule, through the wall, from (a) to (d) [F. IV.] is stately. It has no necessary communication either with the store-room, or dungeon; and enters, at (y), into a fine circular room, the floor of which appears to have been supported, not by timbers *let into* the wall, but *laid upon* great projecting trusses of stone, which still remain all round the building; one whereof is represented, F. VII.

This room appears to have been finished and adorned, with as much elegance as the times would admit of. The stonework is exceeding compact, smooth, and good; the entrance from the stair-case at (d) F. V, is by an handsome arch; and directly opposite to it is another at (f.) as well constructed, leading to the second flight of stairs which go up to the state apartment, passing through the wall from (f) to (e).

IN order to render the description of these rooms as intelligible as possible, I shall beg leave to refer to four slight sketches.

F. II. shews the concave interior half of the tower, looking towards the South.

F. III. shews the concave interior half, looking towards the North.

F. IV. is the plan of the first floor, on which you enter from the grand portal; and

F. V. is the plan of the first grand apartment, of which we are now speaking.

IN F. II. and III. (d v) is the section of the cavity, through which the first flight of stairs ascends, within the thickness of the walls; and (e x) is the section of the cavity through which the second flight ascends.

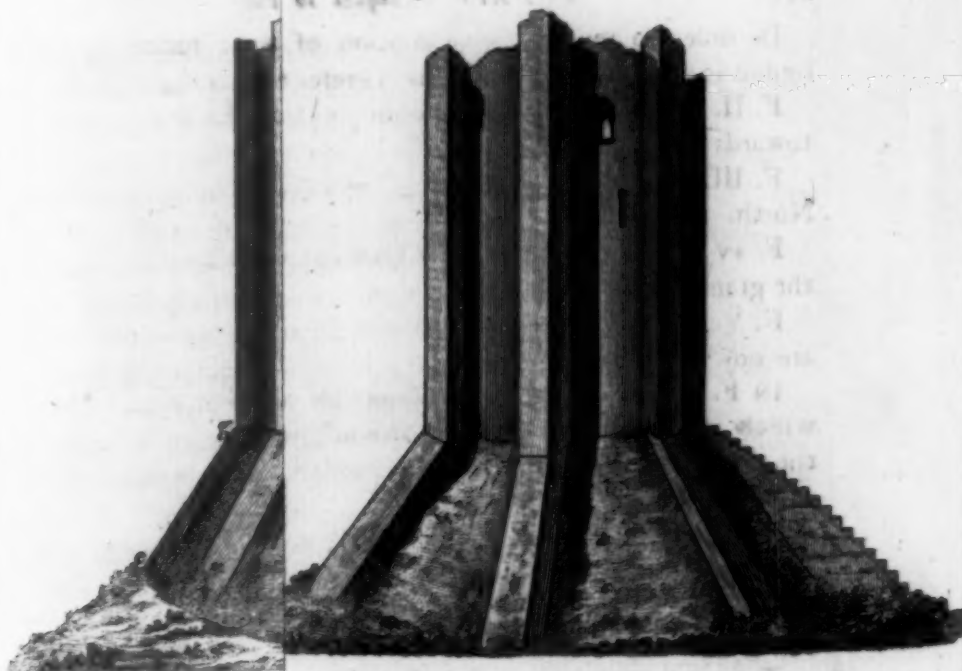
(m n) is the section of the floor of the first grand apartment; and (o p) the section of that of the state apartment.

As to the rest, the letters of reference, both in the sections, and plans, all correspond.

THE first grand apartment I have already begun to describe; which I cannot but consider as the *Guard-room*, or chief place of rendezvous, of the principal part of the garrison. And in this there is one object that most obviously strikes the eye at first glance, and raises astonishment in the mind; a vast fire hearth, on the North side, constructed with an elegance which resembles that of these latter ages, but having a chimney carried up through the wall, like those in other Ancient Castles, and opening through a loop on the outside. The front of this fire place, however, is supported, just like the door of entrance, by a wide arch, not trusted to as sufficient for the purpose, but having two great *transom stones* running across under it. To this rude imitation of the Roman arch is joined also as rude an imitation of Ionic or Corinthian pillars; three of which, in clusters,



F.VI.



F.V.

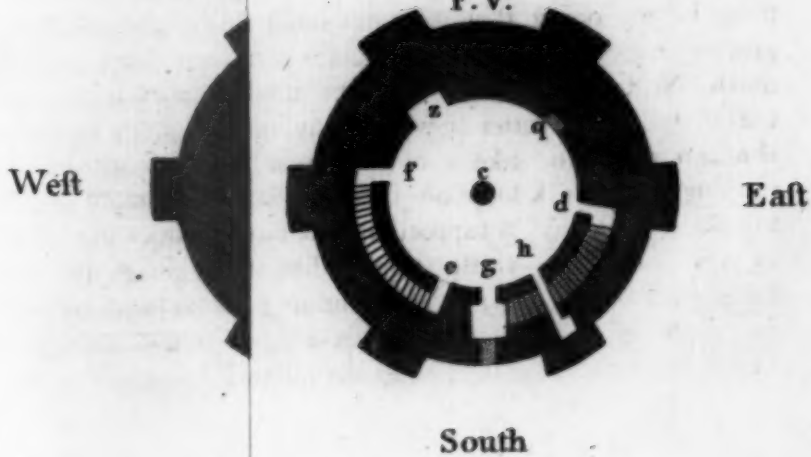
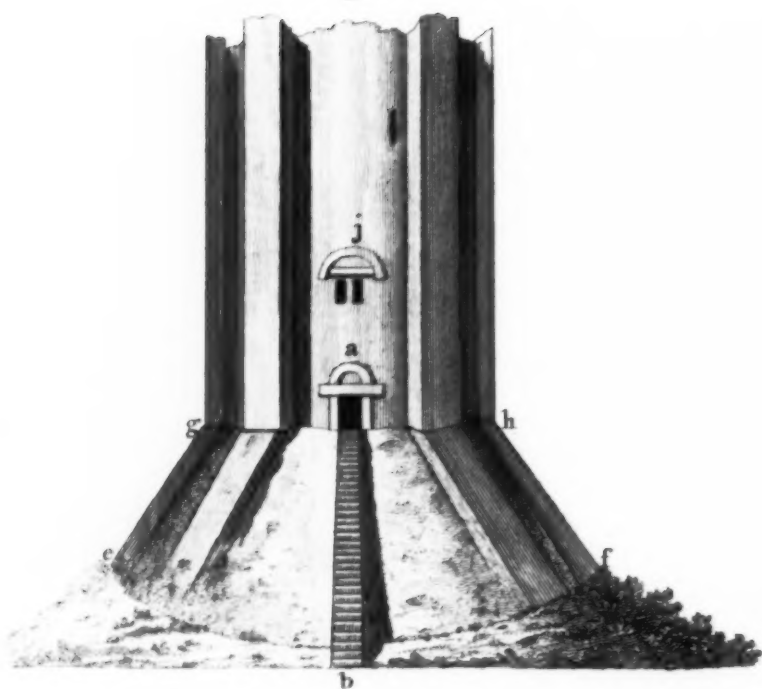
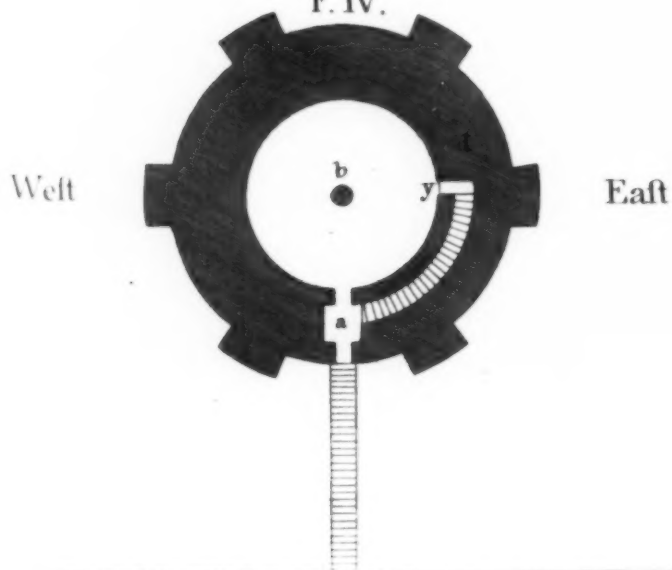


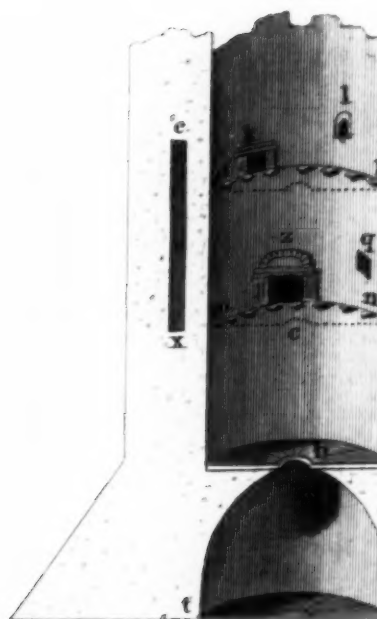
Fig. I.



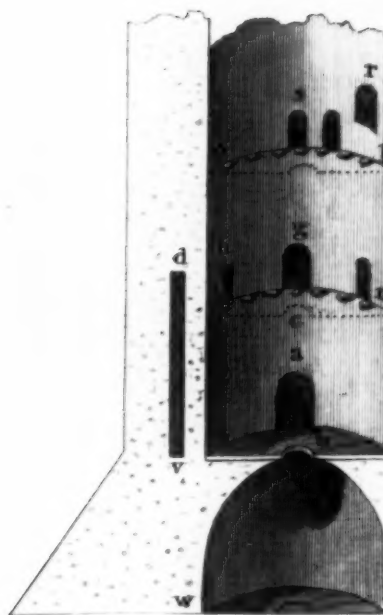
F. IV.



F. III.

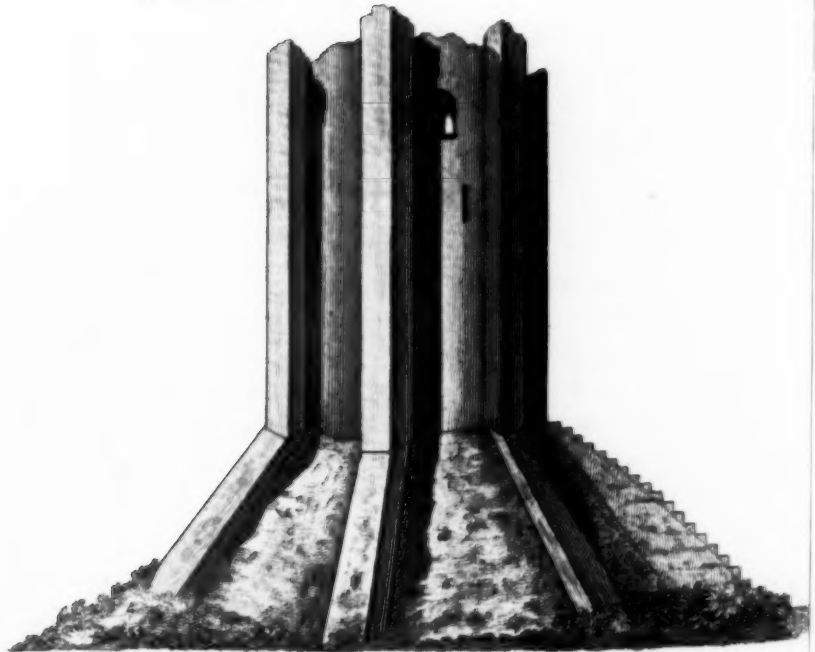


F. II.



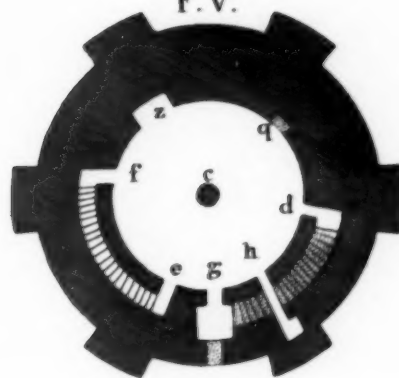
*Conisborough Castle*

F.VI.



F.V.

West



East

South





clusters, on each side, support the transom stones, and at some little distance produce the elegant effect I have mentioned, of the resemblance of a modern ornamented chimney-piece.

NEVER did any thing surprize me more than the appearance of this fire-hearth; I could scarce give credit to what I saw: and my first conclusion was, that this castle must surely have been fitted up, and this addition made, in latter ages, about the time of Elizabeth, or James the Ist.—But, to say nothing of the improbability of such a room, in such a small tower, wherein there was no admission hardly for any light, being adorned with such expence in those days, and having such an exceeding large chimney piece built in it; the whole appears manifestly to be one *compact*, uniform piece of work with the rest of the wall, and built of the same kind of stone: and, indeed, notwithstanding the deceivable *external* appearance to the eye, yet when closely examined, there is nothing like the *real structure* of a modern chimney or chimney-piece of the latter ages in this very singular part of the building.

F. III. at (z) shews the place it stands in;—and

F. VIII. shews it drawn on a larger scale;—as

F. IX. shews the design of the capitals of the pillars

AND the whole device seems to me most strongly to indicate, a period of time, between the departure of the Romans and their arts from this country, and the introduction of savage foreigners, and their final establishment here; a period between the loss of Roman architecture, and the introduction of the Gothic; a period when barbarians, just arrived, mixing with the rudest part of the natives, were prompted to imitate imperfectly, and as far as their conceptions would allow, the few specimens they had seen of Roman magnificence.

THE next thing that attracts the eye, is a narrow door-way (h), where the arch was either forgotten, or thought quite useless;

and where a transom stone *alone* covers the top; this led to a closet, that served for a privy, excavated, as it were, out of one of the great buttresses, and having a narrow winding drain to a side loop.

You then look round the room for windows; but you find none; only there appears a great arch (at g) which leads to a sort of recess, or small lobby, over the grand portal; wherein is the window that appears at (i) F. I. commanding entirely the steps of ascent on the outside; but small indeed, at best, for the conveyance, of any light, or air, to this apartment. We must conclude, therefore, that it was moreover lighted, as I have already hinted, by a circular perforation in the midst of the floor above. The window at (i) just described, like the door way underneath, has an handsome arch at top; but has, moreover, just in the same manner, the assistance of a great transom stone.

ON one side of the fire-hearth, and about half way between it and the door of entrance, is a little square niche in the wall, at (q) F. II. too small for any serviceable use as a locker, or cupboard; and the original design of which, may perhaps best be investigated from what we shall find appear in the state apartment over head.

To that apartment (after passing quite across this guard chamber) the approach is by a second flight of steps, constructed in the same manner, and as noble, as the former; no *winding* staircase is seen; but a regular, continued, gradual ascent, going straight on through a cavity in the wall, from the arched door at (f) up to another arched door at (e).

THIS chamber, from its decorations, appears to have been most manifestly the place of Royal residence. And it had a great window to the South West at (r) F. II. the only considerable one that appears in the whole building.

AT (S) is an arched door-way, leading to a little room over the grand portal, which seems to have served for a bed-chamber;

ber; and where, for security, and that the repose of any person resting therein might not be disturbed by any missive weapon, no light or air was admitted, except by a very narrow loop; although there was the only great window of the lower apartment directly under it.

THERE seems also to have been some little recess in the adjoining buttress; but I could not get up to it, when I visited this building, to be assured.

As this state room was not designed to contain a great number of persons like that beneath, the fire-hearth is smaller, but rather of still more elegant construction. Here again we find the imitation of Roman capitals; and a transom stone, instead of an arch; the former appearing to have been constantly thought the greater security, where there was any considerable width, and a weight above to be supported, and the arch appearing to have been deemed only an additional help; for it is very remarkable, that in this building all the arches which are without transom stones are very narrow.

THIS latter fire-hearth is represented more at large F. X.

BUT the most remarkable appearance in this room, and indeed in the whole structure, is a small nich at (1) richly ornamented; the design of which can hardly be mistaken. From its dimensions, and form, it seems totally unfit for any other purpose, than that of containing some small idol\*; and strongly indicates, that this castle was built, and in use, in Pagan times.

\* From the idols dug up near Strelitz in Mecklenburg towards the close of the last century, and described in a work published in German at Berlin in 1771, entitled "*Runic Antiquities*;" from those dug up at the Devises in Wiltshire, in 1714, and represented in a curious plate published by Mr. William Musgrave in 1717; and from those which were shewn to the society of Antiquaries by the President, the year before last, having been dug up at Exeter, of which an account is given at the beginning of this volume; it fully appears, that, whilst the detestable abomination of idolatry were practised, the images made use of by the Saxons, and other Northern nations, and even sometimes by the Romans (except those placed in public Temples) were in general very small.

It is exactly represented F. XI. and may with good reason lead us to conclude that the square nich *beneath* was for a similar purpose.

I HAVE not described *every* arch leading to every recess or closet; but have been most exact, to the utmost of my power, with regard to all that appeared important.

AND now, whoever considers, in this building, the rude, but diligent imitation of Roman architecture; the staircase running *straight* through the walls, without any turnings or windings, exactly like those in a Northern *Dun*; the whole inside differing so little from that of a dun, and only having smoother, and better finished walls and arches, and floors contrived to hold more people, and to exclude the weather better, but still leaving a circular area from top to bottom open in the middle; and the unlikeness of the whole to any Norman structure; and adds to these considerations the appearance of the niches; will I think have little scruple to allow, that nothing can more strongly proclaim an age of *pagan* barbarity and ignorance, struggling amidst the disadvantages it laboured under, and striving to emerge from its wretched estate, to a degree of civilization and refinement.

I CANNOT, therefore, but conclude this Tower to have been built by *Hengist*, or some Saxon king, before the conversion of that people to Christianity, if not much sooner; and to be one of the most ancient, as well most perfect remains of antiquity, in this kingdom.

NEITHER machicolations, nor the portcullis, nor the mode of securing loop-holes, seem to have been invented at the time this tower was built.

WITH this, therefore, I shall begin: and call it a *Saxon castle of the first ages of the heptarchy*; begging leave to oppose an idea, too commonly received, that all these castles were Norman structures, and that the Saxons had no fortifications but of earth; which



F. VII.



F. IX



F. VIII



F. X



F. XI



*In Connisborough Castle.*



which is undoubtedly no more true, than that the Romans had only such; an assertion, that (notwithstanding their numerous camps fortified in that manner) can never be supported, whilst the ruins of Richborough remain.

WHAT greatly confirms also the idea of this castle being built at the time I speak of, is its very near resemblance to a Scotch dun; it appearing indeed to be only the first improvement of such a kind of building, by architects a little more civilized.

We are well informed, that the Saxons had made a league with the Picts, and Scots about that æra: and that the greatest part of their force consisted of great bodies of those people; who joined them when they issued out of Kent towards the north, assisted them to waste all Britain to the western sea, and were their confederates when they seized this very part of the country \*. If I may be allowed such an odd conception then, I cannot but view this tower, as proclaiming an alliance of Pictish, Scottish, Saxon, and Roman architecture.

Nor are the other parts of this fortress less extraordinary and odd; though I will not presume to say but they may possibly be all (as some of them certainly are) of a later date.

F. XII. is a rough sketch of the Area, or *Ballium*; as it appears, to the best of my remembrance. I was prevented by a very heavy shower of rain, from taking so exact a survey of the north side as I could wish; but all the rest is pretty accurate, though not laid down from actual admeasurements.

AT (1.) and (2.) are the remains of two great round towers; between which was the great outward gate, after passing a draw-bridge and deep fofs.

AT (3.) was another tower.

AT (4.) is the situation of the Keep we have been describing; the foot of the flight of steps leading up to it approaching very near to the south wall.

\* See Milton's History of England to the Norman Conquest, B. III. p. 31. Sammes's Britannia, p. 472.

AND in the corner, at (6), is the most remarkable piece of fortification I ever met with, in any place. It was clearly a *postern gate*, strongly defended in a very odd manner; which may best be understood by representing it on a larger scale F. XIII.

THE whole consists of a very narrow vaulted passage, high enough for a man to walk upright, and made through the thickness of the wall. But from (1.) to (2.) both the arched passage and steps descend very steep: from (2.) to (3.) they ascend also in as steep manner: at (4.) is a very narrow loop, to survey and protect the outward gate; from (3.) to (5.) the steps still ascend again: and from (5.) to (6.) they at last descend very quick and steep to the outward gate: over which, at (7.) is a second narrow loop, the arch belonging to which is entered from the top of the steps at (5); and it commands the outside of the gate.

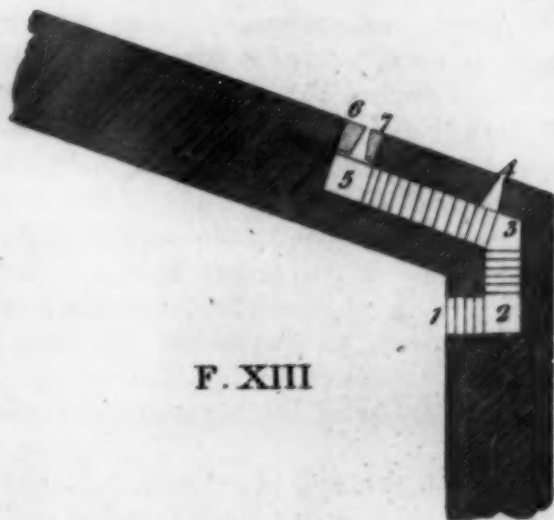
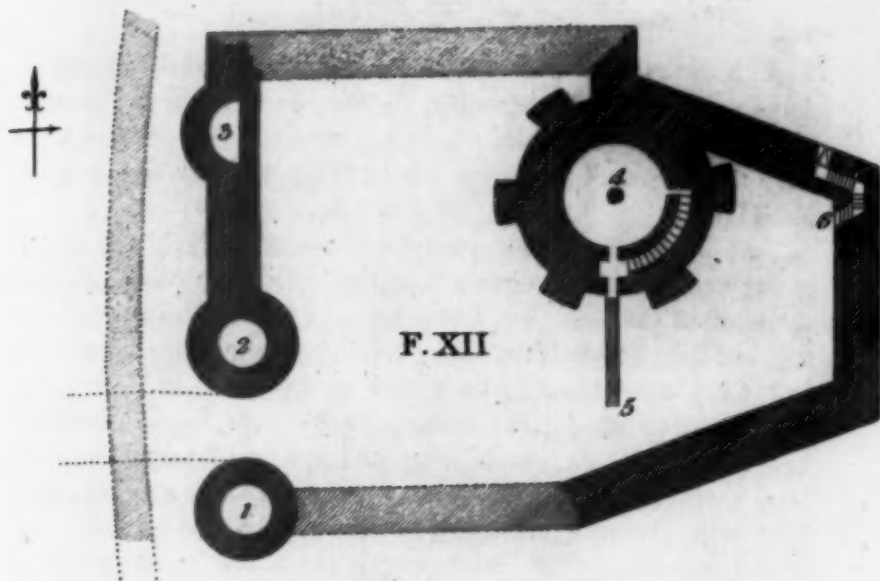
THE design of all these kinds of fortresses was to enable a small number of men to hold out against a great force; and perhaps nothing ever was, or ever could be contrived more effectual, than this *postern gate*, to enable one or two brave men to defy an whole army, before the invention of gunpowder.

THUS have I finished the description of this castle. I shall only just add at F. VI. a side-view of the keep; for the sake of shewing the only great window in the state apartment, and the side appearance of the steep flight of steps at the entrance. But before I proceed further, I must beg leave to subjoin also the representation of one or two ancient Saxon door-ways, drawn on the spot, to shew in what manner the *transom stone* was by gradual degrees left out, and the flattish *under arch* substituted in its room.

F. XIV. is the door of an old Saxon tower of a church at Lincoln.

F. XV. is a slight sketch of a door-way, of the old tower of the church of the knights templars at Temple Bruer; which





*Plan of Connisborough Castle?*



F. XIV



F. XV



F. XVI



*Saxon Door Ways.*





was undoubtedly Saxon; although the inside was *afterwards*, by the knights templars, adorned and lined with pointed Gothic arches against the walls all round.

AND F. XVI. is a remarkable old Saxon arch in an ancient building, opposite to the palace of John of Gaunt, at Lincoln.

THERE is also a remarkable specimen of this kind in the great gate-way of the abbey of St. Edmundsbury, in Suffolk, built in the time of Canute; and another (even of an imitation of a species of flat transom stone across the lower part of an arch) preserved in the enriched portal of Barfreston church in Kent: but both these have already been engraved, and therefore need no representation here. The gate-way of the abbey at Reading, in Berkshire, may also, without impropriety, be mentioned as an instance of the imitation of this kind of double arch, subsisting even long after the time of Henry Ist; when its original intention was probably quite forgotten, and it was considered merely as a sort of ornament.

THE next castle which strikes us with high ideas of its great antiquity, is *Castleton* in *Derbyshire*; perched proudly, like a falcon's nest, on the summit of an almost inaccessible rock, high impending over the mouth of one of the most horrid and awful caverns that nature ever formed. The eminence whereon it stands is nearly insulated; the top of the adjacent hill over the cavern being much lower, and joined, even there, only by a steep precipice falling from the summit of the one down to the other.

ON the west and east sides the rock is quite perpendicular; and to the north and south so steep that it cannot be ascended without the utmost difficulty. The whole commands a fine view of the country round, and of the mountain called *Mam Tor*, with the double fofs of the old encampment (so little known) placed on the highest brow of that shivering mountain.

THERE

THERE is not even any tradition preserved of the first building of Castleton. And some *berring-bone* work in the walls shews that it must have been of vast antiquity. Camden, speaking of the village of *Burgh* in Derbyshire, says only \*, "near this *Burgh* there stands an *old* castle, upon the top of a hill, formerly belonging to the *Peverells*; called the *castle in the peake*, and in latin *de alto pecco*; which king Edward III. gave with this manour and honour to John duke of Lancaster his son, after he had restored the earldom of Richmond to the king." But he does by no means assert that it was built by the *Peverells*, or any Norman; and indeed all that appears, from the best account that can be obtained (of which I had information from the most unquestionable authority) being from an ancient manuscript, in the college of Manchester, amounts merely to this; that in this castle William de Peverell, natural son of William the Conqueror, had his residence, and kept his court; and that he had also another habitation, connected with this, at *Brough* (or *Burgh*), near Castleton; from whence was an ancient road to Buxton, called long before his time *Batbam gate*, or the gate leading to the bath. All which plainly imports, that *here* was a very considerable fortress, the dwelling of some ancient chief, and his train (for whose use such a road was made), long before the Conquest: and that even William de Peverell found the smallness of this tower inconvenient; so far was he from having built it.

AT this very place, *Brough* (or *Burgh*), about 18 years ago, were dug up some old Saxon idols; which circumstance I would wish to have remembered, and connected with what I shall mention hereafter.

\* Gibson's Camden, p. 495.

LET us now examine the building itself. The ascent to it was by a narrow winding path, up a most formidable steep, where a very small band of men might defy an army: and after ascending this you find the castle-walls to possess nearly the whole of the summit.

THE great gate was on the eastern side, but is now destroyed: and it seems to have had no mote or draw-bridge; as indeed none could be necessary in such a situation.

ON entering the area (or as it was called in succeeding ages the *Ballium*) there appear no vestiges of additional buildings, that I could trace; but only a large space for encampment, with two little square turrets, and the keep itself.

THE whole is represented F. XVII. as it appears to the eye, with sufficient accuracy to convey a tolerable exact idea of the whole. I will not indeed be answerable for every *set-off*, or projection, or curvature, in the outward walls; nor will I presume to say whether the area ought not to be represented rather larger every way, in proportion to the dimensions of the keep: but I will venture to affirm, that the situation of the keep itself, and its plan, is most accurate; that the account of the interval between it and the Southern wall is most faithful (having examined it with the utmost care); and that there is no imperfection which can materially affect the general *scientific* idea of this fortress.

(f g h i k l) represent the base of the rock: and the castle-walls (m n o p q) nearly cover the summit.

(a) was the place where stood the great gate, with its towers, now destroyed.

(b) was the keep, or great tower of residence.

(c) is the situation of the great cavern beneath, at a most tremendous depth (c l k); being one continued perpendicular precipice, of at least 87 yards, or 261 feet in height.

(d) is one of the small towers, with a window looking outwards; which might safely be allowed, as there was no danger of any near approach over the precipice, and it was therefore as well protected as any window in the upper apartments of a keep.

(c) is the other small tower.

(t r s) is the place where appear remains of the ancient approach to the great portal of the tower.

(g h) is an exceeding narrow valley, or rather a cleft between the rocks, near 200 feet in depth, with a mountain rising on the opposite side; which valley is also continued to the South of the rock, and there hemmed in with broken crags.

AFTER climbing the steep ascent, and traversing a small part of the brink of the precipice, in order to arrive at the great portal at (a), the whole area of the castle was next to be passed through, before the keep (or tower of residence) could be approached; which stands at the remotest, and best-protected corner of the area; and bears evident marks of the highest antiquity.

Its dimensions within, like that at Conisborough, are small; being only 21 feet by 19, or a very little more: but the walls are near eight feet in thickness.

It had no entrance on the ground, unless it was by a very narrow winding passage, where you now enter (a b) F. XVIII. by the side of which was a steep winding stair-case marked (c): and whether there was any *original* entrance even here is perhaps to be doubted.

At (d) is a small loop to the East; and at (e), another to the North: but there was no loop towards the outside of the castle, except one at a great height, nor to the South; nor does the accurate mode of constructing loops, nor the use of the portcullis,



portcullis, nor the invention of wells within the wall for drawing up the beams of military machines, appear to have been understood, when this castle was constructed, any more than when that of Conisborough was built.

IN the room above, F. XIX. was the ancient great entrance at (g); to which it seems exceedingly probable (from some small fragments of ruins still remaining on the outside of the building, there was an ascent, by a flight of steps, that led first to the top of a low wall, built across the space from (r) to (t), see F. XVII; and from thence along a platform to the great portal; having most likely a draw-bridge, placed above the crown of the little arch of entrance (a) beneath.

MANY circumstances lead to this conclusion: for in the first place, that the arch at (g) F. XIX. was the grand entrance, is obvious from its being originally level with the floor; whilst the two other great arches, manifestly designed for windows, were not so: and the places where the beams of the floor were laid cannot be mistaken. Moreover, both the crown of this arch, as well as the bottom part of the portal, is lower than those of the windows.

AND yet, although the state portal must have been here, and is, indeed, a very magnificent one, nothing can be more evident, than that a flight of steps could hardly, with any degree of possibility, be made to ascend to it, between the outward wall of the castle, and that of the keep itself, without blocking up the lower arch of entrance at (a) F. XVIII. (at whatever period of time that was made); unless by some means or other they were so constructed, as to be carried over the top of it. Nor indeed would there be sufficient length for a flight of steps, unless they ran out sideways into the area before the building towards the East, or were made to wind round the South East corner of the castle.

I CONCEIVE, therefore, the grand approach to have been as represented, F. XX. The steps first ascending from (x) to (r), where was a considerable plat-form; after which the passage went directly over the top of a wall, at (r t), to a draw-bridge at (z), and thence, by a continuance of platform, to the portal (g), in which case the approach to the steps would be thoroughly well commanded (as in point of security it ought to be) both by the lower loop at (d), and by the great window above at (k). And this will account for the loop at (d) being placed so *irregularly*, near one corner of the room, instead of being placed in the middle, as the window above is.

SUPPOSING also the great entrance to have been in this manner, it will allow the lower lesser entrance, at (a), to have been approached by some small possern arch, in the cross wall, under the platform (r t), not very unlike the method that was afterwards adopted in castles of much better and more skillful construction.

LET us now return to the examination of the first grand apartment, F. XIX.

AT (g) was the grand entrance we have been describing.

AT (k) was a large window, which, however, no weapon, shot from the outside of the castle walls, could possibly reach.

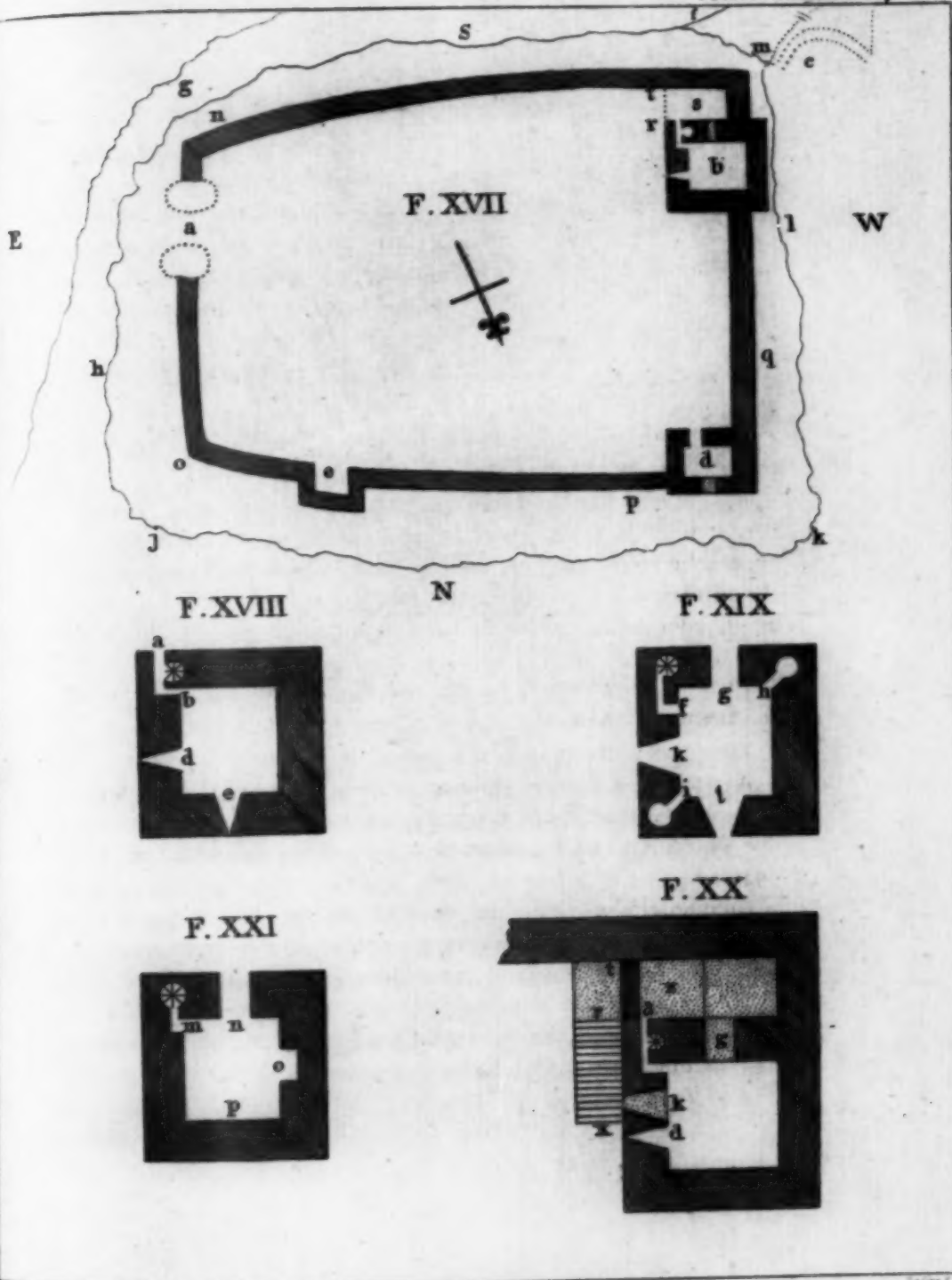
AND at (l) was another window, in a situation equally guarded.

BUT on the west side, impending over the precipice, and exposed to the country, was no window at all; nor any opening whatever, unless it was a very narrow loop near the top.

IN one of the corners, at (h), is a narrow passage, to a small closet in the wall, which served for a privy; having the usual kind of outlet through a loop.



And



Castle at Castleton in Derbyshire





AND at (i) is another very similar passage, and closet, supposed (by the guide who went with me) to have been used for the same purpose; but where I rather suspect was the *well*: unless it was here, as at *Connisborough*, in the centre of the building. Which-ever place it was in, it is now so compleatly filled up, that nothing can be ascertained with certainty relating to it; every one therefore is at liberty to form his own conclusions: but no one acquainted with these kind of buildings can have any doubt as to there once having been a well in this tower.

At (f) is the communication with the stair-case, secured here, as below, by being very narrow, and having also a sharp turn.

By this stair-case the ascent was, from the room I have been just describing, to the upper *state apartment*; the entrance to which was at (m) F. XXI. And over the top of the stairs is a sort of arched dome of stone, very odd, yet very neat.

In this room was a large window, facing the South, at (n).

BUT the most remarkable thing *here* is a large nich in the wall, at (o), with a singular kind of canopy, or ornament, at top; which having no window belonging to it, nor any flue above, nor any outlet that could possibly induce the least suspicion, of its serving for a chimney, leaves us room to suspect it might have been designed for the same purpose as that smaller one at *Connisborough*; and was indeed the *idol cell*, or little idolatrous chapel, in Pagan times. A circumstance, which if it be connected with that of the digging up certain small idols themselves, in this neighbourhood, a few years ago, will still add further strength to our conclusion, that this castle was of the highest antiquity, and may with the greatest propriety be classed with that at *Connisborough*.

It is very remarkable, moreover, that on the North wall, at (p), there is a very odd appearance of projecting stones, in the form

form of a pent, as if, in latter ages, whilst the castle was in use, a roof had been *let in*; the sides of which were placed beneath this cell, on purpose to exclude *it* out of the apartment, from a just abhorrence of its original design.

SUCH therefore, as these two, I think, we may now fairly conclude, were some of the fortresses, and places of Royal residence, during the Heptarchy; although there unquestionably were, during the same period, many other Saxon fortifications, consisting merely of entrenchments of earth; which have hitherto, for want of due examination, been considered by some Antiquaries as the only Saxon castles.

WHETHER the tower of Guilford castle in Surry were not also one of these, may, I think, be justly questioned; especially considering that it consisted, like those we have been describing, only of one room upon a floor; that its windows were evidently of Saxon construction, before they were altered; that neither the portcullis, nor mode of properly defending loops, seem to have been known when that building was constructed; and that (as Mr. Grose well observes), not only Camden\* and Leland, but even Aubrey, and Salmon, who wrote the Antiquities of Surry, content themselves with simply mentioning its existence; neither the founder, nor the *era*, of its first construction being known; only we find the first time it appears in story to be a little *before* the Conquest, when it was the theatre of an horrid tragedy, the seizing of Prince Alfred, in order to put his eyes out, after he had been treacherously conducted hither by Earl Goodwin, under pretence of being honourably and refreshed.

\* Camden says (p. 154.) Guilford, or Guildeford, or Gegldford, was formerly a village of the English Saxon Kings, and given by will to Athelwald, by his uncle King Alfred. And he adds, there is now a house of the king's, though gone to decay; and not far from the river the ruinous walls of an *old* castle.

PERHAPS, also, the odd *herring-bone* stone-work in the walls, and the appearance of Roman brick in some parts, should further be mentioned, in proof of the early date of this tower.

As to the machicolations at one small part of the top, and the many additional buildings in the area around, of which some ruins remain; and the outward castle-gate, where was a portcullis; they were all most undoubtedly additions in latter ages. But the Keep I am inclined to consider as being, like those just described, a *Saxon* castle, constructed during the time of the *Hep-tarchy* \*. What others there were of the same age, I leave, at present, to the examination and determination of the curious; wishing, however, *Chilham* castle, in *Kent*, to be particularly attended to, which I have not yet had an opportunity of examining.

AFTER the first towers, built upon this small, confined, and rude plan, the next improvement that was made in the military art of defence, and in national fortifications, was by that great and extraordinary man, for the times in which he lived, *King Alfred*. Educated in the school of adversity, and taught by suffering to seek surer and more convenient means of protection, for himself and his people, than they were as yet acquainted with, he contended with ancient prejudices; brought from abroad all the information he could gain; and improved thereupon, by the assistance of his own great natural genius, and that of the most enlightned of his contemporaries whom he could meet with. He applied every known improvement of architecture to military purposes †; which before his time had been confined almost wholly to religious structures; and erected

\* An account of this castle is given in my former paper in the *Archæologia*, vol. IV. p. 409.

† Bentham's *Hist. of Ely*, p. 27. *Floren. Wigorn. ad An. 871 and 887.* *In-gulphus, Hist. p. 27.*

noble

noble fortresses in different parts of the kingdom. And to him, or at least to his skill and abilities, we owe those once glorious piles, Colchester Castle, built by his son King Edward; and Norwich Castle, built by King Canute, in imitation of the style of building introduced just before his conquest.

CANUTE wisely saw it was far superior to his own Northern plans, and therefore preferred and adopted it.

THESE two castles, of Colchester and Norwich I have already fully described in my former paper; and have now only to add, that as, from various circumstances, I suspect the portcullis, and mode of defending loops, to be of later invention than the times we are speaking of; so probably not only the portcullis in the modern great entrance at Colchester, but also that at the great entrance at Norwich, were subsequent additions, of a far later date than the erection of those castles.

IT may be remembered, that I mentioned there were lately to be seen in the great stair-case leading to the portcullis, at Norwich, the arms of a chieftain †, Thomas de Brotherton, of the age of Edward III; and the whole stair-case seems manifestly to have been an addition, made about the same period, when probably the portcullis also was there added.

\* It is very remarkable that Canute, in this instance, laid aside the Danish mode of building fortresses, and adopted Alfred's plan, though he preserved the use of the mount; Norwich Castle being erected on an exceeding large one. And it is no less remarkable, that when William the Conqueror, and his Normans, in consequence of their Danish descent, afterwards revived Danish architecture; yet they also very soon adopted and improved upon the same plan of Alfred's; even sometimes laying aside the Danish mount entirely. Inveterate prejudices, however, amongst them were still hard to root out; and during the space of several years, many castles were built by Norman chiefs, some on the one plan, and some on the other; as will be shewn in the further pursuit of these observations.

† See *Archæologia*, Vol. IV. p. 406.



BUT although this device was not introduced by Alfred, yet there were other great improvements of these buildings made by him, and his successors; which consisted in the increased dimensions of their towers; the capacity of containing a greater garrison and more numerous stores; the more extensive outworks; the deceptions of weakness to mislead besiegers, (now first adopted); and the pious introduction of chapels for Christian worship: all which circumstances appear in their castles; and may be particularly remarked in the two I have just mentioned, and heretofore described.

LET US now proceed to the next succeeding step in the alteration of military structures in this kingdom; that which took place at the time of the Conquest.

THE Normans (magnificent as they were) seem, at first, to have entered this country, with ideas of fortification quite different from, and inferior to, those of the Saxons; though they afterwards adopted the latter, and even greatly improved upon them.

THEIR first castles, and their first style of architecture, are almost every where to be distinguished.

DESCENDED from the Danes, they still retained Danish ideas; and considered the *high mount*, as the most essential part of a fortress. As therefore the high *insulated hill* is characteristick of almost every Danish camp, so the same kind of hill, as the basis of a round tower, is characteristick of all the *first* Norman castles.

WILLIAM the Conqueror (says Stow), with an army, went to Nottingham, and there builded a castle; he also went to York, and there caused two castles to be builded, and put in them garrisons: he commanded also castles to be made at Lincoln, and in other places\*, about the year 1068. Let us see whether the remains of these will not illustrate most fully the Norman mode of constructing such edifices.

\* Stow's Annals, p. 109.

As to that at Nottingham, indeed, the keep has long since been destroyed; it was manifestly, however, on a very high and steep hill; from whence was the curious subterraneous passage, still remaining, and called *Mortimer's hole*; which served for a sally port: but one of those at York is yet in being, and deserves the most minute attention.

It is now called *Clifford's Tower*. Camden gives us very little information about it: he only says, William the Conqueror *built a prodigious strong castle*, to keep the citizens in awe \*. To which the Editor adds, near the castle stands the shell of Clifford's Tower, which was blown up in 1684 †.

THIS, therefore, which most evidently was the strongest part of the whole building; having defied both the blast of powder, and the injuries of time; was undoubtedly a part at least of one of the *two* castles mentioned by Stow; and being one of the first buildings of the Conqueror, may serve to explain what the style first introduced by him was. And especially as we shall find, both Lincoln, and other buildings of the early part of his reign, most perfectly to agree with it in their general design.

It is built on the summit of an exceeding high artificial mount; the top of which it very nearly covers; and the sides of which are even still so steep, that it cannot be ascended but by a winding path, that has been cut out of late years; or by an old steep flight of steps, situated on the side next the other part of the castle; where was originally a drawbridge, passing over the ditch, and forming a compleat communication; and where the gate in the old wall enclosing the area of the adjoining castle through which the passage was is still visible, though now blocked up.

\* Gibson's Camden, p. 717. 734.

† Drake intimates, that it was blown up by design; the citizens of York being not at all unwilling to get rid of so troublesome a neighbour, and such an inconvenient badge of distinction as this, which they called their old Mincepye. Drake's Antiquities, p. 289.

SITUATED in this manner, on such an inaccessible eminence, it needed not to have, nor do we find it had, the great elevated portal, secured by being placed at a great height above the foundations; such as we find in the succeeding Norman Keeps. On the contrary, this portal stands on the ground, at the brink of the precipice, and at the very brow of the slope, and steps, that ascended from the drawbridge.

THE plan of the tower consists of four segments of circles, joined together, see F. XXII. The longest diameter, from periphery to periphery, being 64 feet; and the shortest, from intersection to intersection, being 45 feet; and the walls being between 9 and 10 feet thick.

FROM hence it is obvious, almost at first sight, that no beams for floors could well reach across, though the places for timbers are still most clearly visible in the walls: they must have had some support therefore in the middle; where probably were posts, or stone pillars, placed around the circumference of a sort of open well, which both afforded light and air, from the top to the bottom; and afforded also a means of drawing up machines of war to the upper part of the tower; wells in the wall, for that purpose, not being as yet invented.

AN ingenious artist of modern days, might perhaps construct a floor (with less trouble than the ceiling of the theatre at Oxford is constructed,) to cover the whole, without props; but it is evident, from the direction of the holes in the wall, that the beams went straight across, to some support in the middle; and not in such a direction as those of a floor so framed must have gone. And indeed, I may add, that without such a *well* in the centre, the lower room could have had very little air or light.

ON the side next the castle (where was the steep descent of steps beforementioned, and the drawbridge,) is a little additional

square tower: added to the building (as Mr. Drake affirms \*) in the time of Charles I. But, whether it was then entirely a new addition, or, as I rather suppose, a mere *reparation* in the room of an antient turret standing in the same place; in this spot was undoubtedly the original and only entrance, at (a).

THIS we find defended by a strong masonry gate, at the head of the steps; where one man might make a stout defence against an host, before the invention of gunpowder. It is then secured again, at (b), by a portcullis; a means of defence which seems *now* first to have been introduced, by the Normans: and at (c) it was further defended, by a third and inner gate.

ARRIVED within this, we view a large store room, taking up the whole of the ground-floor; and having no light but from narrow loops; the true mode of defending which seems not as yet to have been understood; although they were placed high up, and under great arches, at (iii).

AT (d), and (e), are two circular stone staircases, ascending to the floor above. There is now also an additional small brick staircase, at (b), between the first gate and portcullis; but this is manifestly a late addition, made within a few years; and merely built within the body of the little tower, which it much fills up and incumbers; the inner area thereof being only about 10 feet square.

AT (f), is the well for water, still remaining entire.

AND Drake says there was also a dungeon, so dark as not to take in the least ray of light; but its entrance is now blocked up.

AT (k k), were two fire hearths.

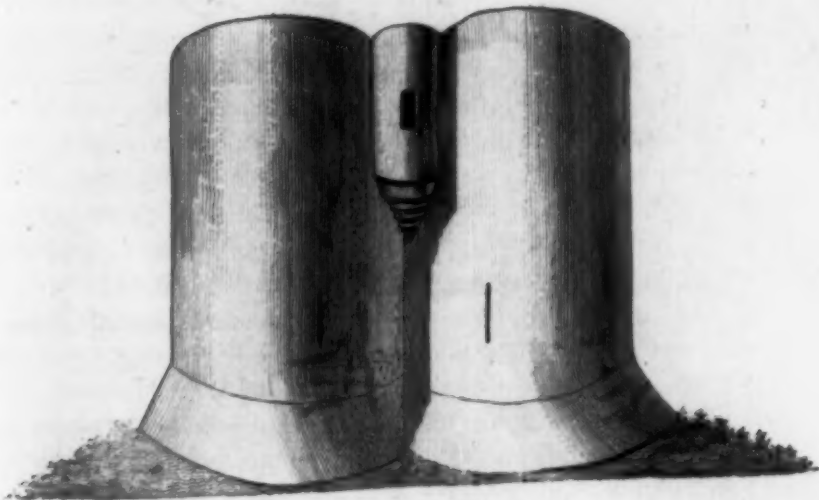
AT (g h), were two recesses, or closets.

ASCENDING up the stairs (d) and (e), we come to the state apartments; and here were large windows, but of a very singular construction, as represented F. XXIII.

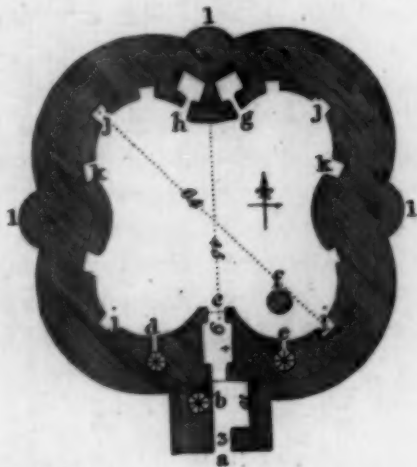
\* Drake's Antiquities, p. 289.



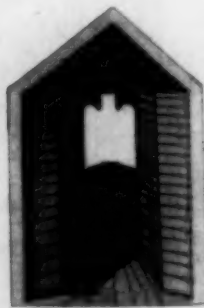
F. XXIV



F. XXII



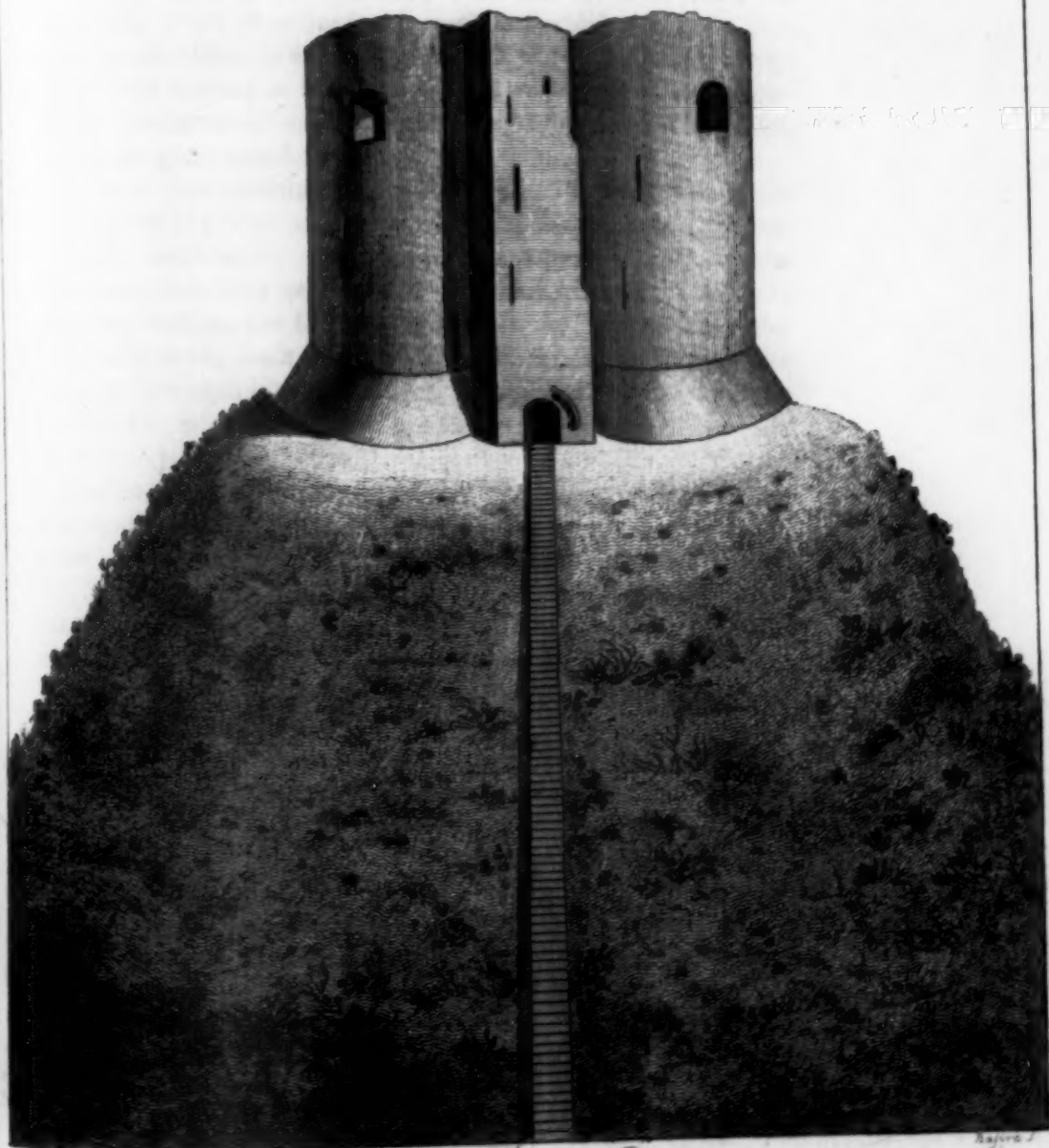
F. XXIII



*Clifford's Tower at York.*



F. XXV



Clifford's Tower at York.

Hayward





AT the intersections of the circular parts of the building, were three *hanging* closets as represented F. XXIV.

AND at the fourth intersection, over the tower of entrance, there was a bed chamber; the outside of which, with its narrow *safe windows*, is represented F. XXV. where also we may observe the manner in which both loops and windows were contrived, to command the drawbridge, and steep ascent of steps, before the great portal.

LET us now examine Lincoln castle; built (as Stow informs us \*) about the same period by the Conqueror: which account Camden confirms †; telling us, that Lincoln was, in the Norman times, one of the most populous cities of England; and that William the first, to strengthen it, and to keep the citizens in awe, built a very large and strong castle, on the ridge of the hill; and that many dwelling houses (to the number of one hundred sixty and six) were destroyed, for the castle.

THE original magnificence of this city, may easily be conceived, from a circumstance almost peculiar to it of all the cities in England; which is, the vast number of beautiful Saxon and Norman door-ways, constructed in the most finished manner, and to be met with in every part of the streets; and in the walls of what are now the most private houses.

AND the ancient Fortrefs here was by no means beneath the dignity of the place; which conveys to us very nearly the same idea of original Norman architecture, as that at York.

THE *keep* was situated on an high artificial mount; this, however, was not (like the former) excluded out of the castle area; but the walls inclosing the whole circuit of the fortrefs were made to ascend on each side the slope, and to join to the great tower: which was, in other respects, in consequence of the steepness of the

\* Stow's Annals, p. 109.

† Gibson's Camden, p. 468.

hill,

hill, and its talus, equally inaccessible, both from within the castle area, and from without, except by a steep flight of steps, and a drawbridge over a ditch; and was therefore almost as compleatly insulated as that at York.

It was nearly round; covering almost all the summit of the mount, like the preceding. But here, as at York, the great portal was still *on the ground*; no ways elevated on the side of the wall; and protected only by the difficulty of access, in consequence of the steepness of the hill. And, indeed, so much was that sort of security depended upon, that we here even find, moreover, remains of *two* great portals; one within the castle area to the SE; and one without to the N W: So that it is very plain (notwithstanding the walls of the castle area adjoining to it on both sides) that this Keep was considered (like the great tower at York) as a distinct, independent, strong hold; equally tenable with the rest of the castle, or without it.

AND hence we may account for a very remarkable circumstance mentioned by lord Lyttelton (in his history of Henry II<sup>d</sup>)\* that when this castle was suddenly attacked by king Stephen; and the town filled with his army, in order to invest it; (William de Raumar, earl of Lincoln, and his half brother the great earl of Chester, with their wives and families, being shut up therein), the earl of Chester *escaped*, at the *very instant* the king was entering the town, and got safe into Cheshire; from whence coming again with a great force, he gave battle, and took the king prisoner. His escape from the castle, at first sight, under such circumstances, appears marvellous; but we may easily understand how it was effected, by considering how distinct a fortress, from the rest, the *keep* was made; and what an outlet it had, independent of the rest of the castle, towards the country.

\* Vol. I. p. 231.

AND indeed it is very well worth notice, consistently with this idea of the independency of this part of the fortress, in what a *strange manner* it was connected with the rest of the building. For it is very plain the great portal, at (f), F. XXVI, towards the castle area, was not considered as forming any communication between the different parts of this strong hold, except in times of peace and security: and that in case of close siege, it must have been very little used; and must have been as safely shut up, and as strongly defended, as that at (g) on the opposite side without the castle walls; both the one and the other being designed merely for state and convenience, when a numerous retinue were constantly passing in and out, and an open court was here kept by the great personages usually resident on this spot.

BUT on the side, at (e), where a communication really was made with the rest of the buildings of the castle, the utmost caution manifestly was observed; for here we find, going from the tower at (b) (which tower also is upon another artificial mount), the remains of a passage, or covered way, at (d), along the upper part of the wall, and leading to a flight of steps on the side of the keep. To our astonishment however, when we come to examine them, there is no *immediate* passage into the keep, nor could there ever have been such; but they must clearly have ascended, with many windings, towards the top of this great tower, and must then have descended again, through a strong projecting and adjoining building, which appears at (h), before any entrance could be gained into it.

How the apartments above were finished, cannot now be ascertained; because the walls, in the upper part, are destroyed: but it appears, that in the lower room there was not even one loop hole; and from the great dimensions of the diameter of the room, it may be concluded the floors above must have been supported by pillars, placed in the circumference of some artificial well,

well, in the middle, as at York, for the purpose of affording air and light, and of drawing up machines of war and stores.

THE walls are above seven feet thick; and at (x), under the place of ascent from the covered-way, there is something like the remains of the mouth of a well; sufficiently protected by the great thickness and mass of walls every where adjoining.

AT (z) appears to have been the door of the staircase leading to the upper part of the building.

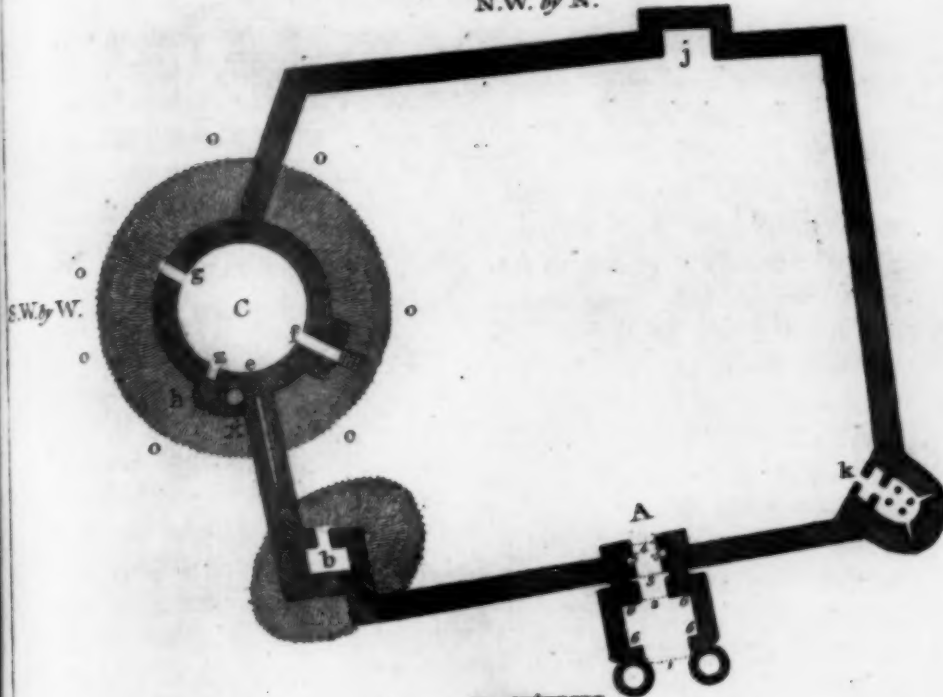
AND (o o o o o o) shew the basis of the steep mount, whereon the keep is built; the height of which mount is very great.

HAVING thus described the part of this building which is characteristick of the Norman times; I shall now proceed to describe as much of the rest as remains perfect; without any regard to the ages in which the several parts were constructed. Undoubtedly great additions were made, both in the circuit, and within the area, at different periods: and it is known to have been improved to its greatest degree of perfection in the time of John of Gaunt duke of Lancaster, whose chief residence it once was: but it is most remarkable, and proves the antiquity of the building, that he finding the situation too keen and cold, retired to a winter palace, that he built, in the lower part of the town; of which there are still some remains; remains that shew he was well acquainted with a style of building far different from that of the antient keep on the hill.

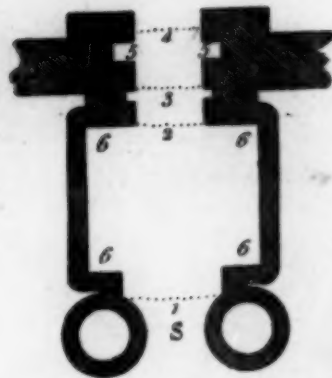
THE outer walls of this castle inclose a very large area. The approach whereunto was, and is, by a great tower from the city, at (A), the whole device of which is more exactly represented F. XXVII. where (S) shews the first great gate, standing between two small round towers; beyond which was a small court of guard (6666). At (2) was the second great gate, directly under the great tower. At (3) was the Portcullis. At (5) are remains of two seats, in niches, for wardours; and at (4) was the fourth great gate. There were one or two magnificent rooms  
above



F. XXVI  
N.W. by N.



F. XXVII



F. XXVII  
2



Plan of Lincoln Castle.



above, in this tower; but no communication with them (as far as I could perceive) from the arched gate way beneath; the approach to them being from the walls within the castle.

IN the corner of the area of the castle, at (k), is a most remarkable strong and curious little building, appearing like a tower on the outside; and now called *Cobs hall*; and used as a dungeon: but it manifestly was originally a chapel; having a fine vaulted roof, richly ornamented, and supported by pillars; and having a crypt underneath; and also a small antichapel. The workmanship of the whole is exceedingly curious: and it is most particularly singular, that the pillars are so exactly placed over-against the loop holes which afford light, as to be a protection against any missile weapons that might be thrown in.

AT (i) are remains of another turret; under which I am informed, by Sir Henry Englefield, is a curious Saxon, or rather a Roman arch, appearing to have been a still more ancient entrance than that at (a) either to some original fortress in this place, or perhaps to the old city; but as it is not visible on the inside of the castle, in consequence of a mount placed in this part, it escaped my observation. These are all the fragments of the original building that now exist.

I CANNOT, however, quit the mention of this curious place, without taking notice of some very extraordinary *earthen pipes*, found in its neighbourhood, and fastened by joints; one of which was sent to me a year or two ago by Sir Joseph Banks, president of the Royal Society, which I now lay before the Society of Antiquaries.

IT is one foot ten inches long, and between 2 and 3 inches in diameter within; but by no means regularly circular.

THESE pipes lay in a direction leading straight, from the castle, to an outwork called *the Lucy tower*, at the bottom of the hill, standing by the side of the great antient Cut called *Carausius's Ditch*. They were therefore suspected to have formed

a communication, for some purpose or other, and possibly for the conveyance of sound. But I will not presume to decide any thing concerning them; as they might perhaps be designed for the conveyance of water, though ill suited for that purpose on account of the want of closeness in the joints. There is certainly a spring in the high ground between this tower and the castle, and they might possibly be part of some conduit from thence.

WHETHER they were any part of the conduit mentioned by Leland, I am not able to determine; for want of greater accuracy in *his* description. His words are \*, "There is another " new castelle of conduit hedde, *trans Lindum flu*: and booth " these be servid by pipes derived from one of the houses of " Freres, that were in the upper part of Lincoln."

WHATEVER they were, their form and substance, and manner of being *glazed*, is very odd, and curious; and therefore I venture, in this short digression, to make mention of them, and to represent one of them. (Fig. <sup>17</sup>/<sub>1</sub>)

THE next castle of the Conqueror, and also of the *earliest* part of his reign, that deserves our notice, in order to confirm what has been said, is *Tickhill* in *Yorkshire*, a place of great renown.

It was given, by King William, to Roger de Buisly, with 49 manors in *Yorkshire*; and the edifice, from every circumstance attending it, seems most undoubtedly to have been erected by him.

ALL that Camden says of it only this; "scarce five miles from " Doncaster, to the southward, stands a place which I must not " pass by, called Tickhill, being an antient town, and forti- " fied † with an old castle, which is large; but barely sur-

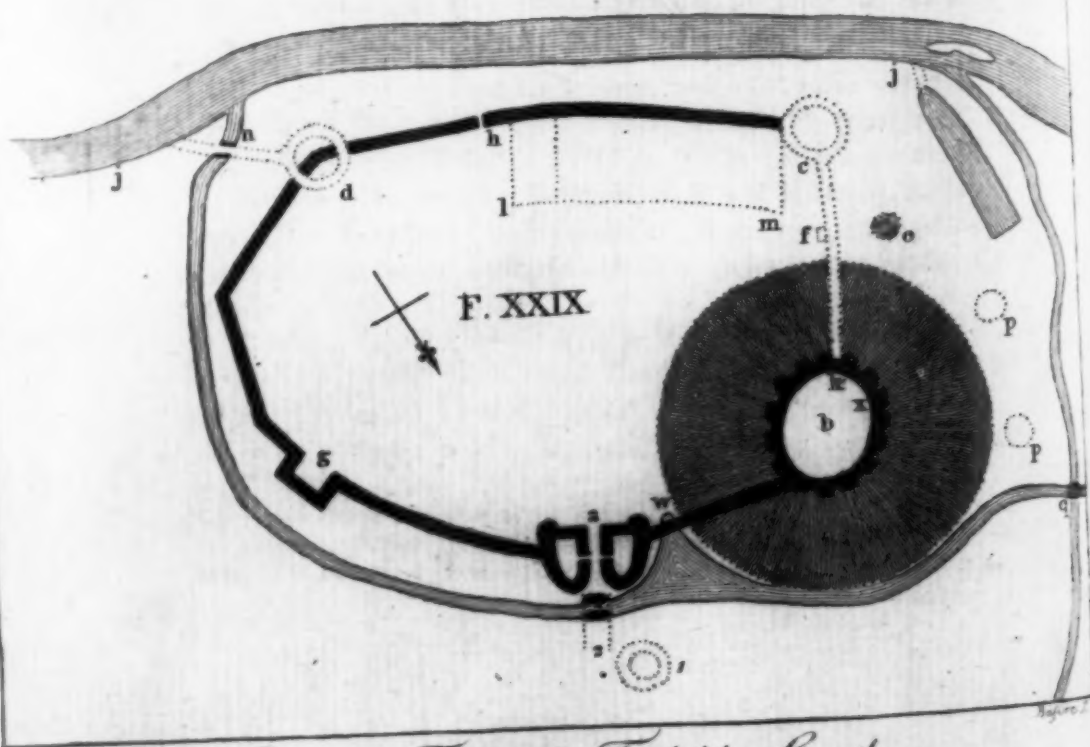
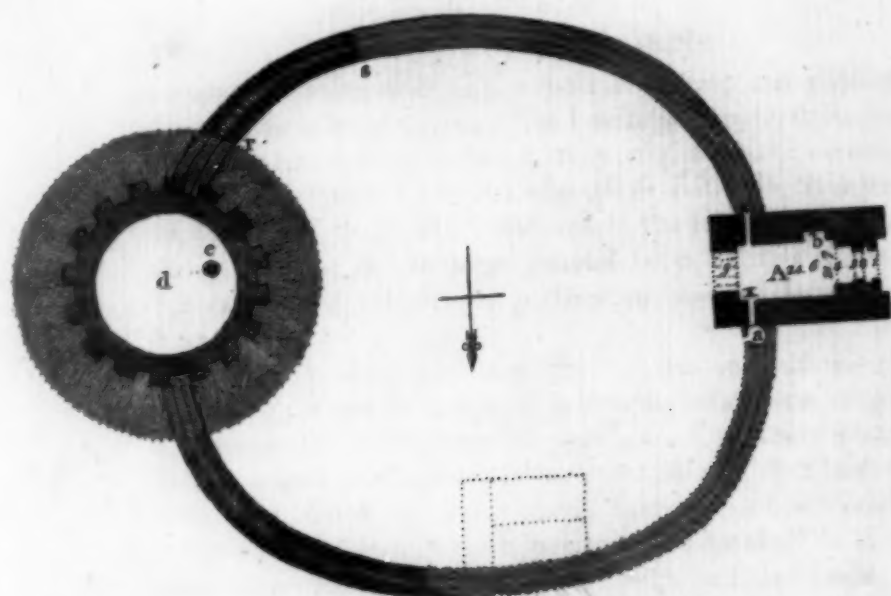
\* Leland's Itinerary V. I. p. 34.

† I cannot but here remark a great inaccuracy in the editor of Camden's *Britannia*, who speaks of *the town being fortified by an old castle*: as if the castle was





F. XXVIII



Plans of Tickhill & Tunbridge Castles.

“rounded with a single wall; and by a huge mount, with a  
“round tower upon the top of it. It was of such dignity  
“heretofore, that all the manors hereabouts appertaining to  
“it were stiled The Honour of Tickhill. In Henry the first’s  
“reign, it was held by Roger Buisly; but afterwards king Ste-  
“phen made the earls of Ewe in Normandy lords of it. Next  
“king Richard the first gave it to his brother John. In the  
“barons war, Robert de Vipont took and detained it, till  
“Henry III. delivered to him the castle of Carlisle, and that  
“country, upon condition that he would restore it to the earl  
“of Ewe: but upon the king of France’s refusal to restore  
“the English to the estates they had in France, the king dis-  
“possessed him again; John earl of Ewe still demanding resti-  
“tution of it from king Edward the first, in right of Alice  
“his great-grandmother. Lastly, Richard the second, king of  
“England, gave it to John of Gaunt duke of Lancaster\*.”

IN the remains of this castle again we find the same Danish ideas preserved; and much the same kind of plan as in the two preceding.

AN high artificial mount †, with a round keep at the top covering nearly the whole of the surface, are the characteris-  
tick parts of this fortress.

built for the protection of such an inconsiderable town, instead of the town being built (as was really the case with all such towns) as an appendage to, and in consequence of the erection of, the castle.

\* Gibson’s Camden, p. 707.

† In this singular circumstance the Norman castles, built on the top of artificial mounts, erected by their chieftains, differ from such of the prior Saxon castles as were built (like that at Norwich) on great mounts, or ancient barrows of still earlier date; for the castle at Norwich (for instance), though so much larger than any of these, covers but a very small part of the hill on which it is built, and has a great plain area, left on the top of the mount, adjoining to it, and surrounding it; whereas the true Norman castles cover nearly the whole area of the summit of the respective hills on which they are situated.

THE whole plan is represented Fig. XXVIII. where (A) shews the situation of the great tower of entrance; having originally a great gate at (1): a portcullis at (2); a second gate at (3); a third gate at (4) and a fourth gate at (5); but as the part at (1), is of late and recent workmanship, it is not at all improbable but that there might moreover have been originally a *court of guard*, and two small round towers before this gate, as at Lincoln.

IN the upper part of this tower was an handsome room: to which, however, there was no approach *from within* the gateway beneath; but the access was by a winding staircase, at (a), within the area of the castle, entering above, at X.

THIS room was 24½ feet, by 21 feet 7 inches; and had a fire place at (b); and a large window at (5) over the inner gate; where a still larger window was placed, in latter times, about the reign of Elizabeth, or James I: but it had no window at all, *externally*, over the outward gate.

AT (c) was a door leading to a passage, on the top of the wall, going from hence to the keep (d); which was itself round; and built on the summit of an high round artificial mount, the top of which it very nearly entirely covered.

THE foundation walls of this keep, which was like that at Lincoln very large, are still to be seen, and traced very plainly, under the turf; and also the place of a *well*, at (e), may be discerned.

FROM hence was a steep flight of steps, and another covered way, toward (N); where stands a modern house; but where also are remains of very ancient buildings; which, however, appeared to me to be of much later date than the keep and original part of this fortress.

THE part of the wall of inclosure marked with dotted lines has long been pulled down. And the part (SC), forming the communication between the tower and the keep, was destroyed very lately,



ly, by Mr. Berridge the present possessor; who very obligingly gave me much information with regard to this building; and shewed me, with great exactness, all the foundation walls of the keep; to which the ascent, even from the covered way, on the top of the wall, must have been very steep, and therefore most easily defended \*.

He also did me the favour to communicate to me a copy of a very curious ancient inscription; which I afterwards read, on a brass plate, in the old church, at this place; and which I here insert, on account of its singularity, and relation to this castle.

Hic jacet Will's Eitfeld quondam Senescallus de dominio de  
Holderneffe ac de honore de Tykhill cū dñā Philippa Regina Angl.  
ac de dominio de heytfeld cū dño Edmundo Duce Ebor. ac mgarita.  
uxore ejus qui quidem Willms obiit xxiiii<sup>o</sup> die mensis Decembris  
Anno dñi Millmo cccclxxxiiii<sup>o</sup> Cujus aīe ppicietur dē. Amen.

*Tunbridge* is the last castle I shall mention of the *original* Norman style: as it was indeed one of those *last built*: but I shall give a full description of it; because of the great improvements *here* introduced, in the tower of Entrance, in a subsequent reign.

\* There is a curious print, from an old drawing, of the ancient appearance of Tickhill castle, with its keep standing, amongst those published by the Society of Antiquaries; but though it serves to convey a tolerable idea of what must have been its general form, yet it is manifestly devoid of all true proportion; representing the mount small in comparison of the tower itself; whereas it is in truth a very high hill: and it must have been inaccurate also in other respects; shewing the tower of entrance to have been of a different shape from what it ever could have been, and placing two large windows in it, on the outside, where there neither are, nor ever were, or could be any.

THIS great gate, or Tower of entrance, in this noble pile, was erected long after the first construction of the fortress; and contains more convenient apartments, for the residence of a Commander in chief, than are to be met with in any of the original buildings of the age near the Conquest.

WE have *here* a specimen of the first beginning of those kind of additions, and of those remarkable alterations made at various times, in these strong holds; which, if not carefully attended to, may easily mislead an unwary observer, and occasion confusion in his ideas of the modes used and adopted in different ages.

TUNBRIDGE castle, Camden informs us, was built by Richard de Clare, (about the time of William Rufus) who got it, by exchange, for Briony in Normandy\*; his grandfather Godfrey having been natural son to Richard the first duke of Normandy, and made earl of Ewe and Briony. After a long contest about Briony he, in recompence for it, took the town of Tunbridge, in England; on which occasion the *Lewy* of Briony was measured with a line, and he received an equal quantity of ground at Tunbridge, measured by the same line; his successors, earls of Gloucester, however, held the manour of Tunbridge of the archbishops of Canterbury, upon condition that they should be stewards at the installments of the archbishops, and should grant them the wardship of their children.

SUCH is Camden's account; but Philipot's is more explicit: he tells us plainly, that the earl of Briony was an earnest abettor and supporter of the designs of William Rufus upon his brother's territories; in consequence of which Robert duke of Normandy made war upon him; depredated the earl's estate; and utterly subverted the castle of Briony; which was there-

\* Gibson's Camden, p. 191.

upon left an heap of ruins. William Rufus, therefore, commiserating his calamitous condition, granted him as much land at Tunbridge, as would spread into a league in length and breadth. And *Gemeticensis* reports, that he brought over the rope, with which he was to measure his new possession, in the same ship which transported him and his retinue \*.

THE accurate Lambarde indeed †, gives us an account of the particulars of this transaction something different from either of the foregoing; but yet such as, upon the whole, may fairly lead us even to the same conclusion, with regard to the building of this castle by Richard earl of Briony.

AND although it be true, that Lambarde himself guesses otherwise, and supposes the Keep to have been erected by Odo bishop of Baieux ‡; (in which I think he is mistaken) yet even that supposition would not invalidate what is here advanced, with regard to the *nature*, and *era* of this fortress; since it only places its date still nearer to the time of the conquest, and makes it appear still more strongly an original Norman pile.

WE have here, therefore, at Tunbridge, in either case, a castle built by a Norman, almost instantly on his removing himself hither from his own country: and if the earl of *Briony* was the builder (as I apprehend he really was,) most avowedly on the very plan of his former residence. And accordingly this fortress has all the outlines of what I have hitherto considered as the *first*, and most *original* Norman castles.

THE entrance was by a strong tower, defended by a drawbridge, and a deep ditch; from the upper apartments of which tower there still may be traced, very distinctly, the remains of a covered way, leading to a round Keep, that was situated (like

\* Villare Cantianum 343.

† In his Perambulation, p. 425.

‡ P. 442.

those already described), on the summit of an high artificial mount.

THE walls of this building are still in part remaining ; and discover far more of its nature and design than those at Tick-hill : and nothing can be more obvious, than that a consistency with the original plan and general device has been preserved, in the very re-edification of the tower of Entrance ; and in the communication formed between it and the Keep ; although the former be a building of so much later date, and so much more compleat, than any of the older square towers of Entrance hitherto described.

THE refinements, which the progress of arts introduced, soon caused the lords, who possessed these kind of castles, to begin to consider the residence in the round Keep (except merely in time of siege,) as a mode of dwelling not so eligible as it had appeared to their haughty ancestors. The large open well in the centre, probably began to be thought uncomfortable ; and therefore induced them to prefer more convenient and pleasant apartments, constructed in that other part of the fortress ; where before they had been contented with one single room, for state. From hence, however, they still took care to leave a safe retreat to the antient Keep itself, in case of necessity : to which they might retire whenever a close siege commenced.

THAT the *great tower* of the castle at Tunbridge, in consequence of this improvement, was considered as rendering this fortress a more commodious place of residence than many others ; and that it was preferred, as such, in the time of Henry III. (in the early part of whose reign this tower of Entrance seems, from the style of architecture, to have been built) appears from a judicious observation of Philipot's ; who tells us, that in 1263 Henry III. besieged Tunbridge castle, and forced it to surrender at discretion ; and therein found, amongst others, the *Countess of Gloucester*. From whence (says he)



he) it may be inferred, *that in those times, it was esteemed, if not the only, yet at least a principal mansion of those great Lords of Tunbridge, the Earls of Gloucester.*

I SHALL now proceed to describe the whole of this extraordinary castle; which is indeed one of the noblest and most perfect structures of the kind, of any at present remaining in England. But I cannot forbear previously to make all due acknowledgements to my respectable friend Mr. Hooker, the worthy proprietor of this princely possession, who preserves the remains of it most cautiously, and has diligently examined every part with the utmost care; in consequence of which he has greatly assisted me, in my enquiry; correcting my drawings; affording me much additional information; and enabling me to form a more precise judgement, with regard to every part.

FIG. XXIX. is a general plan of the whole area of this Fortrefs; to which there were great outworks, with several deep ditches, extending to a considerable distance into the country, and having fine contrivances of sluices, and locks, for filling them with water; the latter being brought not only to surround the whole castle, but to wash the very foot of the great tower of Entrance.

AT (1), just beyond the ditch, was a round tower, now destroyed; whereof the foundations do, however, still remain underground, and which served as a *Barbican* to defend the approach.

AT (2) was a drawbridge; so contrived, as when drawn up to rest against the front of the castle, and to close the entrance compleatly. The fofs, in this part, has been filled up within these eight years; but I well remember the whole open: and have authority to add, that on digging at the bottom were found remaining the foundations of two piers, which supported the bridge; and which were constructed in a very remarkable manner, the stones being laid in pitch, mixed with hair, instead of mortar.

(a) Is the great tower of Entrance.

AND (b) is an high circular mount, rising seventy feet above the present area of the castle; and an hundred feet above the bed of the river: its base forming a circle containing almost exactly an acre of land. On the top of this is situated *the Keep*, of an oval form; its longest diameter without, being eighty-six feet; and its shortest seventy-six feet; and its longest diameter within, being about sixty-four feet, and the shortest fifty feet: so that the walls must have been, in some parts at least, about eleven or twelve feet in thickness\*.

AND it appears from these dimensions, that there must have been a well, or small open area in the centre, with pillars, or arches round it, both to support the timbers from the side walls, and also to afford air and light.

THE mount has been discovered, upon examination, to have been formed manifestly of earth dug out of the great ditches, and trenches, which surround the castle, and from the present bed of the river. And to prevent such an enormous mass as the Keep, when reared upon such new-made ground, from having any dangerous or irregular settlement, its walls were constructed in a very singular manner; for they were not only of great thickness, and supported by strong buttresses; but compacted with timber, wrought up in their substance. It even appeared (upon pulling down some of the ruins, on purpose, a few years ago) that at what must have been about the height of one third part of the building from the ground floor, there

\* I took the inward diameters myself, with as much accuracy as possible; but the area being now planted with fir trees, it is very difficult to hit precisely upon the longest and shortest diameters, and there may therefore possibly be some error in the dimensions; as I suspect there is, because the walls are, in some places, not above five or seven feet in thickness, leaving out the buttresses; but the error cannot be considerable.

was a continued range of timber, by way of curb, wrought up in the midst of the substance of the wall all round; so that whatever settlement there should be, at any time, in the ground, the whole must regularly settle together, or not at all. It is to be observed, however, that the ground, both within and without the area of this building, has been raised considerably above the original floor; and that the upper part of the wall is now destroyed.

To this keep there were two most extraordinary and well-protected approaches, from the other parts of the fortrefs; of such a kind, as to deserve the most minute description.

THE one I examined myself. It is a covered-way, from the upper part of the tower of entrance, at (a), along the top of an high wall, which joins that tower to the keep, at (b): but where it terminates, at the keep, (like that at Lincoln) it never entered, either upon the ground floor, or even upon that next above; but (as appears most manifestly from the ruins still remaining) went up, with a very steep ascent, quite to the state apartments, at the top of this building.

THE whole nature of it may more fully be understood by Fig. XXX. where (a) represents the tower of entrance; and (b) the lower part of the walls of the keep, and the top of the mount, now remaining.

AT (d) is the arch, leading from the tower down to the top of the wall; which appears manifestly to have been secured by a strong portcullis, and an iron door.

FROM (d to e) is the covered-way.

AT (e) is the foot of the exceeding steep flight of steps, ascending from thence to (f); but in such a manner, that it is manifest they neither ended there, nor could have entered the keep, at (f); nor indeed till they got a considerable way

above the present ruins; where we may be assured there was a door-way, at least as well secured as that at (d); and so contrived, that on any emergency all communication might easily be cut off, even from this covered-way.

THE wall of communication is considerably higher, on the *outside* of the castle, than within; which latter is the side here represented. The ground without is even lower by 26 feet, in this part, on the outward north side of the wall, than within on the south: and the buttresses, at the bottom of the outward front of the tower of Entrance, spread out, till they nearly meet the continuation of the foot of the mount, under (w); in which spot was an open arch, that let the water in from the outside ditches, to a well, at (c). And upon the top of the wall, over this well, appear marks of there having been a projecting framework of timber, made for the purpose of drawing up water, on either side, to supply these two buildings. I make no doubt, however, but that there was also a well of water within the body of the Keep itself, *here*, as at York, for the service of the garrison, in case of a close siege.

IT has been suggested, that the ground within the castle was formerly much lower than it is now; so as to afford a free passage to the water, through the arch, under (w), to some ditch running round the foot of the mount; but I can hardly think the fact to have been so in reality, because the great gate-way of entrance, under the tower, seems still as lofty as ever it was originally: and unless all the ground was lower, the ditch within the castle must have been unusually and unnecessarily deep; even much deeper than that on the outside of the walls. To which I may add, that such an arch, so left open, would (notwithstanding any grate that might have been placed in it) have been too dangerous, and too weak a part, to have been suffered in such a strong fortress as this was manifestly intended to be; whereas, from an arch placed merely at the bottom of a  
narrow



narrow pipe of a well, at (c), of at least 26 feet in depth, there could be no danger at all.

THE other extraordinary approach to the Keep is now in great part destroyed; but I was fully informed of the nature of it, by Mr. Hooker, who formerly very carefully investigated it.

THIS was, from a great round tower (whereof the foundations only now remain underground) at the west corner of the area of the castle, at (c) Fig. XXIX. From this tower it came, as a covered-way, upon the top of the wall, about half of the intermediate distance towards the Keep, as far as (f); where was a steep descent, by stairs, to a square subterraneous vault, still remaining most perfectly entire: and from thence was a subterraneous ascent (the arch of entrance to which also still remains); and the whole then went up (somewhat like that passage which is called Mortimer's Hole \* at Nottingham), to the summit of

\* I have myself gone quite down, from the summit of the mount, to the bottom of this passage, at Nottingham; from whence it is well known there was moreover a subterraneous sally port; but whether there was any such here at Tunbridge I cannot pretend to say positively; I rather suspect, however, that there was; because, at some distance without the walls, at (o), have been discovered remains of a stair-case underground, to which it might possibly lead.

The account given, by Stow, of the manner of surprizing and seizing Mortimer Earl of March, in the beginning of the Reign of Edward III. by means of the subterraneous passage which I refer to at Nottingham, is curious enough to deserve being inserted on this occasion, as a further illustration of the nature of these devices.

" Upon a certain night, the King lying without the castle, both he and his  
" friends were brought, by torch-light, through a secret way underground, begin-  
" ning far off from the said castle, till they came even to the Queen's chamber;  
" which they by chance found open: they, therefore, being armed with naked  
" swords in their hands, went forwards, leaving the King also armed without the  
" door of the chamber, lest that his mother should espy him: They which en-  
" tered in, slew Hugh Turpinton, knight, who resisted them; master John Nevell  
" of Horne, by giving him his deadly wound. From thence they went toward  
" the Queen-mother, whom they found with the Earl of March, ready to have  
" gone to bed." Stow's Annals, fol. 229.

the

the mount; where it communicated only with the store-room, or lower apartment of the Keep, and with a small winding staircase, within the substance of the wall, about (k); which latter appeared, from what remained of the ruins some few years ago, to have gone up directly to the leads, at the top, and to have had no sort of communication with the state-rooms, or any other of the intermediate apartments within.

As therefore the former covered-way was obviously designed for the use of the governor, or lord of the castle, and his immediate attendants; so, we may depend upon it, this latter was designed for the use of the soldiers of the garrison; and was their common mode of approach, from the tower, at (a), and from their other barracks, where they lodged, so long as the area of the castle was preserved from the hands of the enemy, and till they were more closely besieged, and shut up in the Keep itself. Part of the steps of this ascent were remaining in the year 1742. And from the strange mode of entrance here made use of, we may perceive that all communication from without might even still more easily be stopt, this way, than the former.

In the buttress at (x), is the appearance of a square pipe, forming a drain to the upper apartments.

At (d), are discovered the foundations of another round tower.

And at (g), are remains of a smaller square tower, which seems to have had only two rooms one above another.

At (h), was a sally port, well constructed, and secured, with a flight of steps descending towards the river: and between (m) and (n) have been discovered foundations of a range of buildings; which I have good reason to believe were mere additions, made after the time of Edward the 1st, and therefore shall give no further account of.

THE walls surrounding the area of the castle are in general about ten feet thick.

AT (i i), is the river; but it did not run originally in the present channel, this latter being first made for it only at the time the mount was raised, which was in great part composed, most evidently, of strata of earth dug out from thence: as the course of the river was then turned\*, in order to render it a better means of defence to the castle.

THE great ditches surrounding the whole fortrefs, which were filled with water from the river, run very nearly in the directions represented in the plan.

FROM the corner tower (d), was a strong wall, built across the mouth of the last ditch, at (n), to keep the water to its proper height: and over this wall it found a passage, that formed a continual fall: whilst the whole work was well protected, by its nearness to the adjacent tower.

AT (q), was another large and strong *wear*; and from some foundations, discovered at (pp), it seems as if there was also a tower, or work, constructed *there*, in like manner, for its protection, that it might be as well secured as the former.

AT a little distance from this *wear*, to the west of the castle, began a bank, that was carried two miles up the country, through hills and valleys, to enable those who had the care of the castle to fill the mote, at least 14 feet above the level of the valley in its neighbourhood; which circumstance (by the by) joined with those others which I have already mentioned, convinces me still more fully, that the ground, within the area of the castle, could never be much lower than it is at present: since, in the case here mentioned, when the water was so raised, on any approach of an enemy, it must have flooded all the bafs-court, by means of the arch in the wall between the tower of entrance and the keep.

\* Of this Mr. Hooker informed me there are many unquestionable and authentic proofs.

To the north, in front of the castle, were two other ditches, at a considerable distance: the one dry, the other filled by means of the bank just mentioned; this last was very deep, and broad; and passed through the town, only at a quarter of a mile from the gate of the castle; where (from some piles dug up 40 years ago), there is the strongest reason to believe there was a draw-bridge.

COME we now to the examination of the great tower of Entrance, which is one of the most curious structures at this day remaining in England; and appears manifestly, from the style of its ornaments, to have been erected, either in the time of King John, or at least in the very beginning of the reign of Henry III.

FIG. XXXI. is a plan of the ground-floor, and of the great portal, through which is a passage to the *Baſs-court* of the castle (or *Ballium*). I have before observed, that the water of the ditches, surrounding the castle, washed the foot of this tower: and at (xx), in the north front, is the part against which the draw-bridge was drawn up; compleatly closing the entrance; the places in the walls, on each side, worn by the timbers, being still very visible.

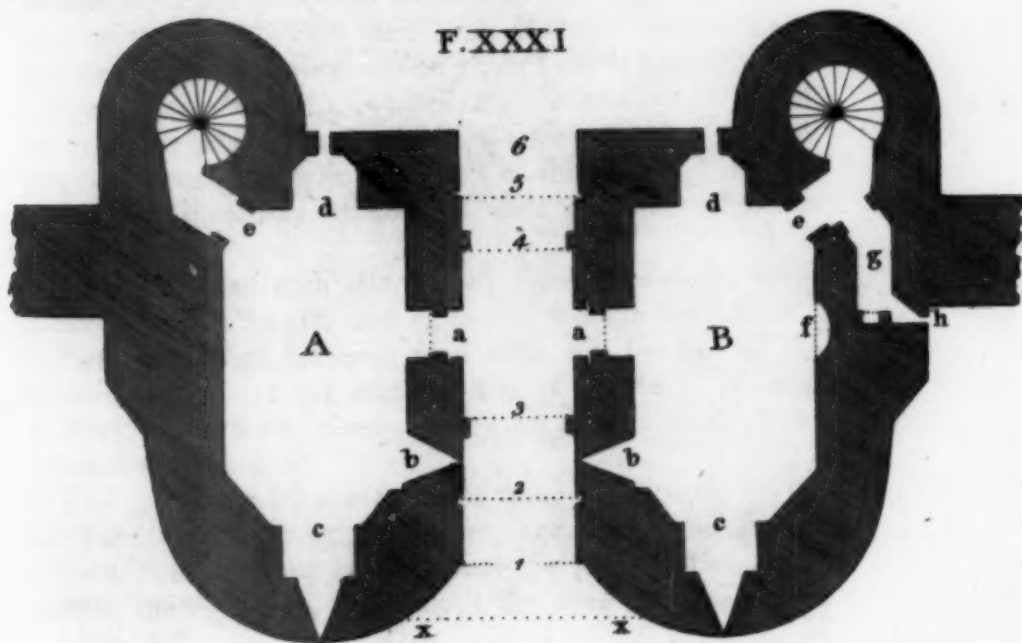
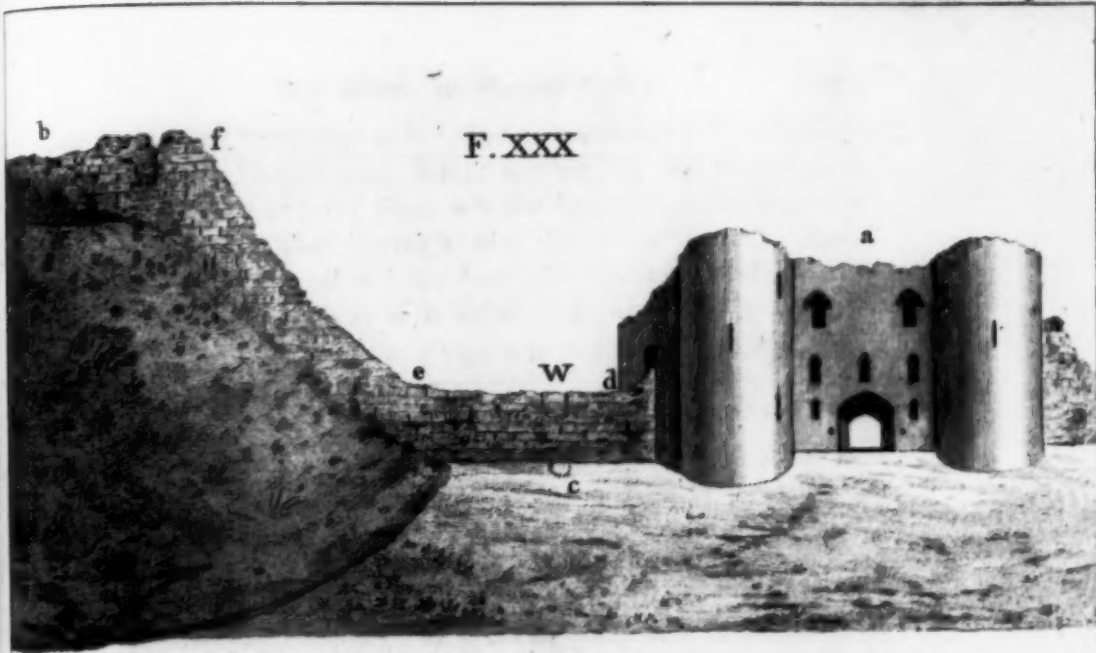
AT (1), appear also, on each side, in the wall, the places for fixing the windlafs, to draw up the bridge: and over head, just beneath an arch at a vast height, are three *machicolations*, for pouring down boiling lead, and hot sand, on any assailants; in case the draw-bridge should at any time be torn down, and this first entrance be forced.

At (2), was an enormous portcullis; descending from another of the high arches, near the top of the tower.

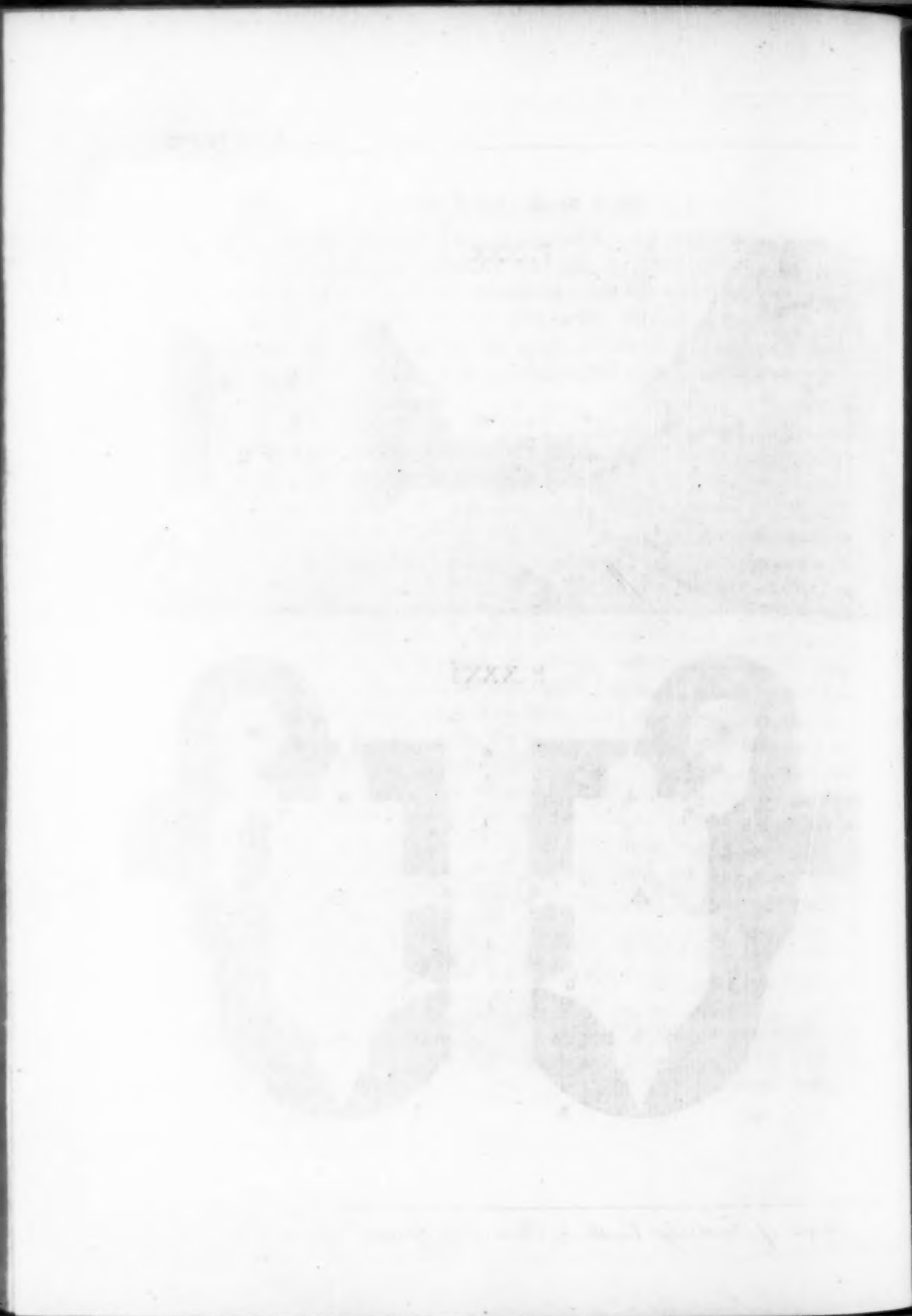
AT (3), was a pair of strong gates.

AND between the portcullis and these gates (that is, between (2) and (3), are three more machicolations, over head; placed under





*Inside of Tunbridge Castle, & Plan of the Ground Floor of the Tower.*



under an arch somewhat lower than the former. Besides which, there are two narrow loop-holes; one on the right-hand, and the other on the left; from whence any besiegers attempting the second gate (after having broken, or burnt the portcullis) might be wounded, even with spears, as well as by cross-bows.

BETWEEN (3) and (4) is a larger area: the arch of which, over head, is perforated the whole way with rows of *machicolations*, placed at equal distances.

AT (4) was another pair of great gates.

AND at (5), was a second portcullis; but not ascending so high in the tower as the former: over-head, however, at (6), were *machicolations* again, as at the first entrance.

IN the middle of the whole passage, on each side, at (a a) are two small door-ways; four feet six inches in width: they were each of them secured, first by a strong portcullis, and then (as appears obviously from the narrowness and smallness of the grooves into which they were made to shut) by *iron* doors; and lead to the two apartments on either side the gate-way.

EVEN the inner walls, wherein these door-ways are placed, are five feet five inches in thickness: from whence we may judge of the vast strength of the rest of this building, in other parts: as it manifestly appears the walls are much thicker in many places.

THE rooms, on each side, are of equal dimensions, being about 28 feet in length, and 15 feet 9 inches in breadth.

AND the passage between, from what was the foot of the draw-bridge, to the end next the area of the castle, is about 40 feet; which shews clearly how great the thickness of the outward walls must be.

THE gate-ways are about 10 feet wide. The room, on the left hand (A), had neither chimney, nor recess, belonging to it; and seems to have served merely for lodging stores. But that on the right (B), had a large fire-place at (f) and near

adjoining to it, in the wall, at (g), a recess, approached from the stair-case, which served for a privy, having a very small window, at (h), belonging to it; in the construction of which, it is not a little remarkable, how compleatly it is secured from the possibility of any weapons that might be shot in doing mischief.

IN both the apartments are loop-holes, at (cc): and, at (bb), those already mentioned; all of which are placed so high, that, although the soldiers, who defended the tower, might most easily annoy the assailants without, it was hardly possible for the latter to wound those within.

AT (dd), are two other loops, which being towards the inside of the castle, are made both wider, and in every respect larger, for the admission of air and light.

AT (ee), are two circular stair-cases, well constructed, and arched over head; both of them going quite to the top of the tower, but not descending any lower than this floor. They have, however, as you ascend, recesses, in the side walls, leading to the loop-holes, which are wonderfully well guarded.

These lower rooms were each 13 feet 6 inches in height.

FIG. XXXII. is a plan of the vaults underneath; having manifestly never had any way down to them, but by traps in the floors the rooms just described; and having neither light or air, but what was admitted by two very remarkable narrow sloping flues, opening to the air on the outside, at the height of 9 or 10 feet above the ground, and so small, that the one, marked (g), is only one foot by 10 inches; and the other, marked (h), only 6 inches by 5 inches in width.

THE walls, being thicker near the foundations, render these vaults rather smaller than the rooms above.

AT (i), is a reservoir of water, that has been made of late years, for a sort of cold bath; but, from its being so readily and constantly



stantly supplied, we may conceive how easy it was to have had a well formerly in this spot; and may conclude that in all probability there actually once was one, either here, or at least is some part near adjoining.

At (kk), are manifest remains of a strong partition wall: and the floor, at (l), appears obviously to have been formerly sunk much beneath the rest; which indicates this to have been the place of the dungeon.

FIG. XXXIII. is a plan of the great apartments on the first floor above; being of just the same dimensions as the rooms on the ground floor; only the height is no more than 11 feet 6 inches.

At (mmmm), are only narrow loops, there being indeed no windows at all, on the outside of this tower, next the ditch.

But at (nnn), are three small windows: one to each apartment, looking into the court of the castle; and in the midst of the floor of the recess leading to that in the middle, just over the inner gate-way, is the perforation of one of the machicolations.

At (zz), is an open groove for drawing up the inner Portcullis, through the floor; which was worked in this apartment: whilst the grooves of the outer and greater Portcullis appear on the outside of the wall, at (xx). And it may be remarked, that the whole boarding of the floor of this middle room (p), was obviously laid on loose, with design to be taken up, occasionally, in order to use the machicolations, formed in the great vaulted arch on the top of which it was placed.

At (oo), in the rooms on each side, are large fire-hearths and chimneys.

At (qq), are the doors leading to the two stair-cases; the steps whereof are still in excellent preservation, and well wrought; but are every one of them eleven inches in depth; the cause of which great depth seems to have been, that they were so contrived, as to ascend, *by one turn only*, from this floor to the

next; and so as to have the first step, at (7), and the last step of the turn at (8).

FROM the staircase, on the right hand, at (r), is a passage to a recess, or small room, formed in the thickness of the wall, exactly of the form and dimensions laid down in the plan, from whence, at (u), is a passage to an arched door way, at (t), which appears clearly to have been strongly secured, both by a Portcullis, and an Iron door, and led down to the covered way, on the top of the wall, that communicated with the keep.

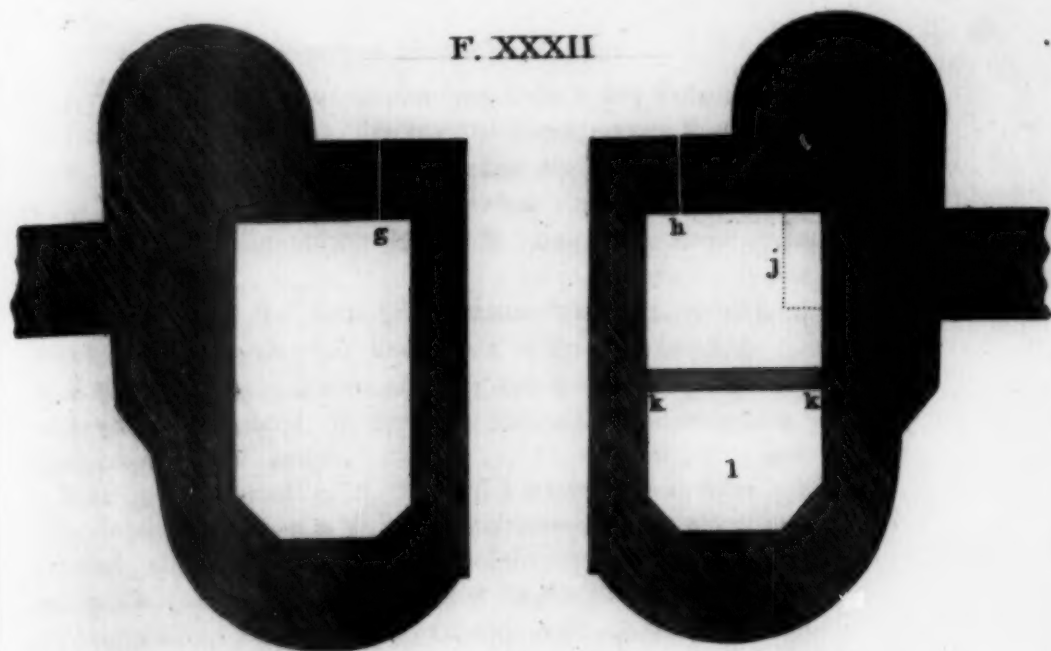
FROM the staircase, on the left hand, at (q), is another small passage, at (w), leading to a privy; of the same construction with that, on the opposite side, on the floor beneath: and at (yy) are the grooves for drawing up the small Portcullisses over the side doors.

Fig. XXXIV. Is a plan of the state room above; which appears to have been very magnificent, and of great dimensions; including the whole area of all the three rooms beneath. It is now indeed divided into three such apartments as those are, but the walls forming the divisions are mere modern erections, of very late years, raised (as the proprietor informed me) on the top of the original ones in the lower floor, with a view to fit up a small room as a library; which design was afterwards laid aside.

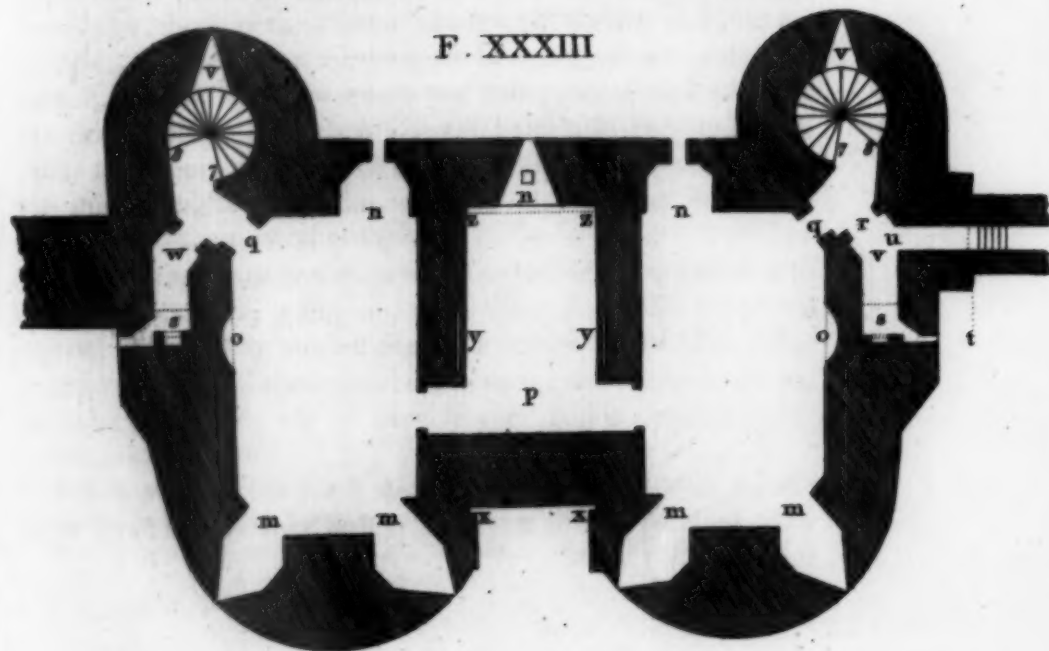
At (z) is a large fire hearth, and chimney: and at (tt) are two very fine large windows, highly ornamented, in the style that began to be introduced in the time king John, and in the earliest part of the reign of Henry III; but they appear to have had no glass, and to have been fenced only with Iron bars, and wooden shutters; as is known to have been the usage in early times \*.

\* It must be in the remembrance of every one, who has had an opportunity to peruse the very curious old household book of the Northumberland family, that whenever the earl removed from Alnwick castle, to London, not only the *arras* was taken down, in all the rooms, but the *glass* was also carefully taken out of the windows.

F. XXXII



F. XXXIII



Plans of the Vaults & of the First Floor in the Tower of Entrance at Tunbridge.





AT (v,v,v,v,) are four narrow loop holes : but there is reason to think that the arches, leading to them, were shut up, as mere closets, behind the arras, except on particular emergencies; and that this noble room, when finished and adorned, was no ways disfigured by them. It was no less than 17 feet in height.

THE beams of the floor (for greater strength), were placed much nearer to each other than those of the floor beneath : indeed they are hardly the width of a beam assunder; and seem to have been intended, to support occasionally the weight of a great concourse of people.

THE great Portcullis, at the first entrance, was drawn up *here*, behind the arras, at (x x); but seems to have been so constructed, that when at its utmost height, it only just filled up, and made level, the cavity left for it in the floor. The dotted part adjoining, shews the top of the wall underneath, upon which the floor rested; for, on account of the projection of the hanging arches, in the front of the tower, the flat wall, in the middle, was advanced further out here, than in the room below. The cieling of this room was still more remarkable than the floor; being no less than 3 feet in thickness, designed manifestly to support not only the lead of the flat roof, but moreover the great weight of balistas, catapultas, and other engines of war, placed there occasionally.

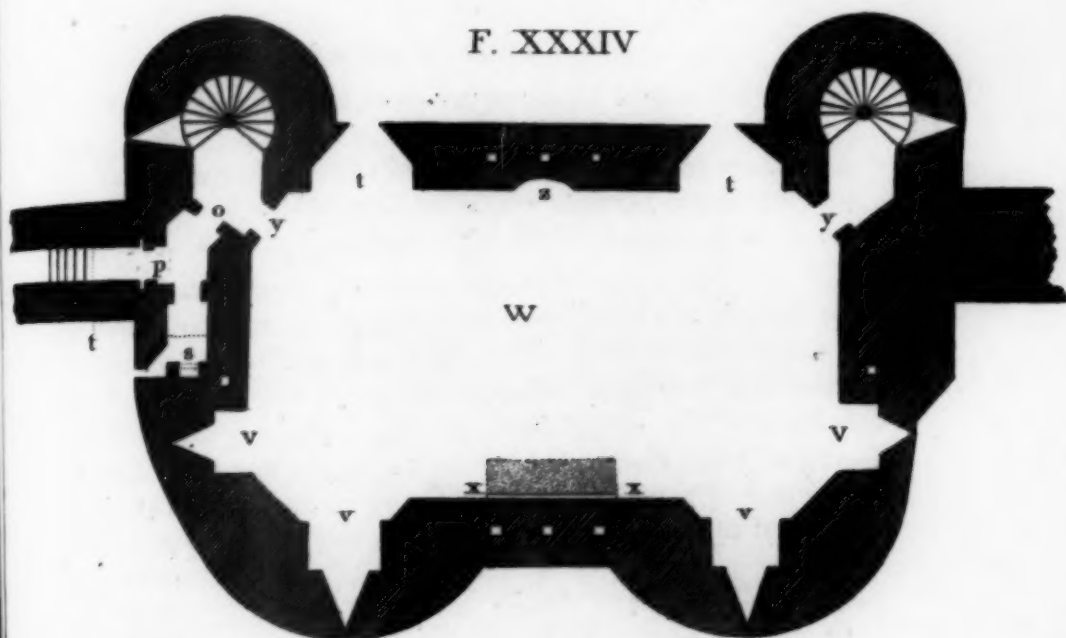
IN both the front and back walls appear the perforations of the machicolations, going up, quite through, to the top of the tower; where they were easily come at, by means of a *set-off* in the parapet wall above; and could with more convenience and advantage be made use of than if they had opened into the apartments beneath.

AT (y y), are the doors to the two staircases: that on the right hand merely led directly to the top of the building: but

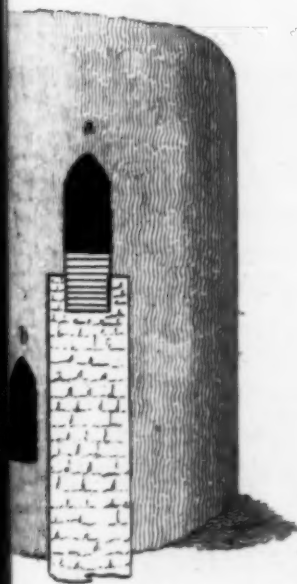
from

from that on the left, at (o), is moreover a passage, leading to a small room in the wall, of the same proportions and dimensions as here represented; and from thence was a second narrow passage, marked (p), leading to an arched door way, defended (like that on the opposite side, on the floor beneath) by a Portcullis and Iron door; and from this door way was an exceeding steep flight of steps leading down to a covered way, on the top of the adjoining wall, which communicated with the small square tower, marked (g) in the general plan.

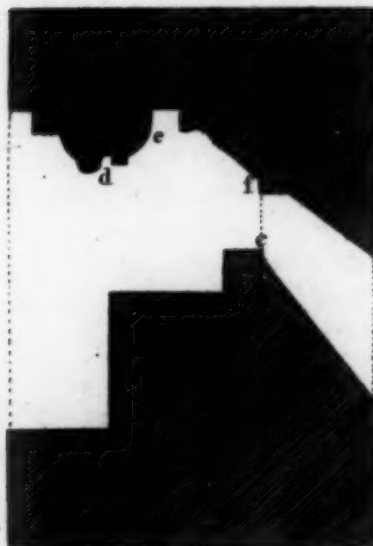
AND further, at the end of this passage room, was another arch, leading to a small recess serving for a privy, constructed just like the former. On which occasion I must remark, that on the outside of the tower, far underneath, appears a large arched door way, (answering to one exactly similar at the opposite end of the tower) the use of which, at first sight, is not at all obvious: they were both originally considerably above the level of the ground; and look in every respect, like small side portals, as much as those others above, defended by the Portcullises and Iron doors: and being placed on the outside of the walls of the castle, (where, except these two large open arches, there are only loops) they give the tower a strange appearance of injudicious weakness. But, odd as it may seem, they are found certainly, on examination, to have been designed partly for Deception, to mislead an enemy by a false outside; and principally to preserve cleanliness; and for the sake, first of concealing, and then of easily removing the soil and filth, from the casements above; and to prevent its disfiguring the outside walls of the tower, in such a manner as was the case in many other castles, where the outlets to the casements were only loops. Within each of these doors is nothing more than a small square area, excavated out of the wall; the flues descending down to which, from above, are so well constructed; and secured, that from this contrivance there could not happen even the least diminution of the strength of the castle; whilst at the same time, the



F. XXXVII  
3



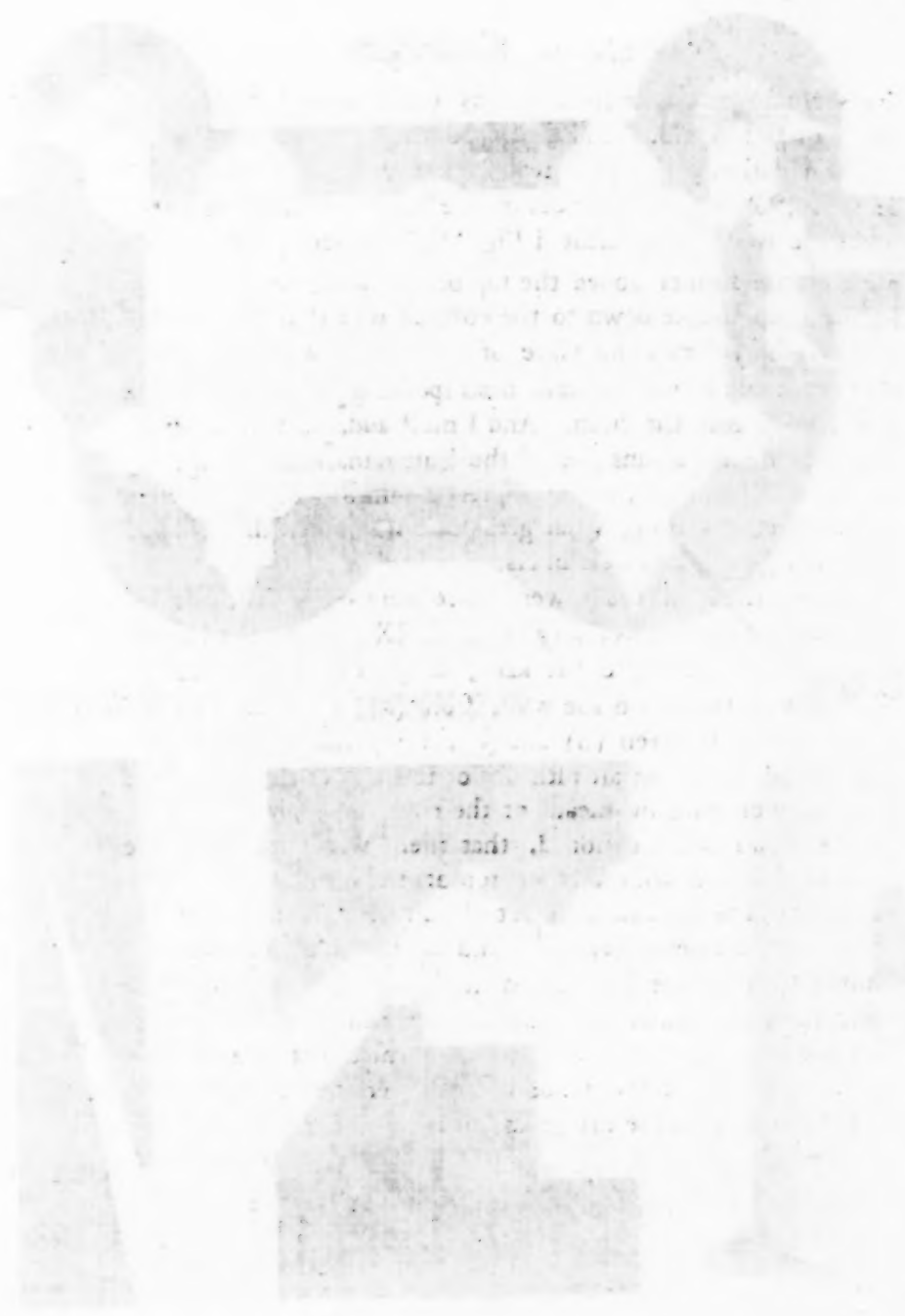
F. XXXVII



F. XXXVII  
2



Plan of the State Apartment; & Section of a Loop at Tunbridge.





the external appearance to an enemy could only serve to occasion a most ridiculous kind of deception.

THE situation both of the real door-way, and of the one for deception, on one of the sides of the tower, (namely that towards the west) is represented Fig. XXXVII where (a) shews the place of the former above the top of the wall, with the steps leading from thence down to the covered-way that goes to the keep; and (b) shews the place of the latter, which is one of the remarkable arches we have been speaking of, on the outside of the wall next the ditch. And I must add, on this occasion, that it is by no means one of the least remarkable things belonging to this fortress, where so great a number of persons were to have their dwelling, what great care was taken throughout, to preserve health and cleanliness.

BESIDES these in the tower, there were more than one necessary, in the small tower at (g) Fig. XXIX; another at the top of the steps ascending to the keep, at (b) Fig. XXX: and an whole row of them, on the wall, from (h) to (d); besides one or two others between (h) and (c); every one of which were so contrived, as to cast all filth out of the area of the walls, and to be easily cleansed by means of the river.

I HAVE already mentioned, that there was a *set off* in the wall, on the leads above; at the top of the tower we have been surveying. The wall there is not of half the thickness that it is in all the apartments beneath: and by that means a walk and station for the soldiers was formed all round. On ascending these leads, the two circular stair-cases ended: being covered in with stone arches at top: over which were formed platforms of lead. And over the top of the windows (et) were two straight stair-cases, leading from the first leads, to those two platforms.

In the parapet wall, all round, were many loop holes: and from some appearance of remains of the lower parts of windows,

next

next the court of the castle, there is reason to suspect, that there were also some smaller apartments constructed here: but of that I am not certain.

Fig. XXXV. represents the north front, and entrance of this great tower; remarkable for the high arches, hanging in a most magnificent manner, one within another, far above, over the portal, and containing the first machicolations, and groove for the Portcullis.

WITHIN the second set of hanging arches, against the letter (b), were the second machicolations. And the loops of defence, are on each side, just where the figure of a man is placed.

THERE may be observed also two loop holes high above, for defending the approach to the entrance. And I have already mentioned, that there appear, in the walls of the towers, on each side, the places worn by the ends of the timbers of the drawbridge resting against them.

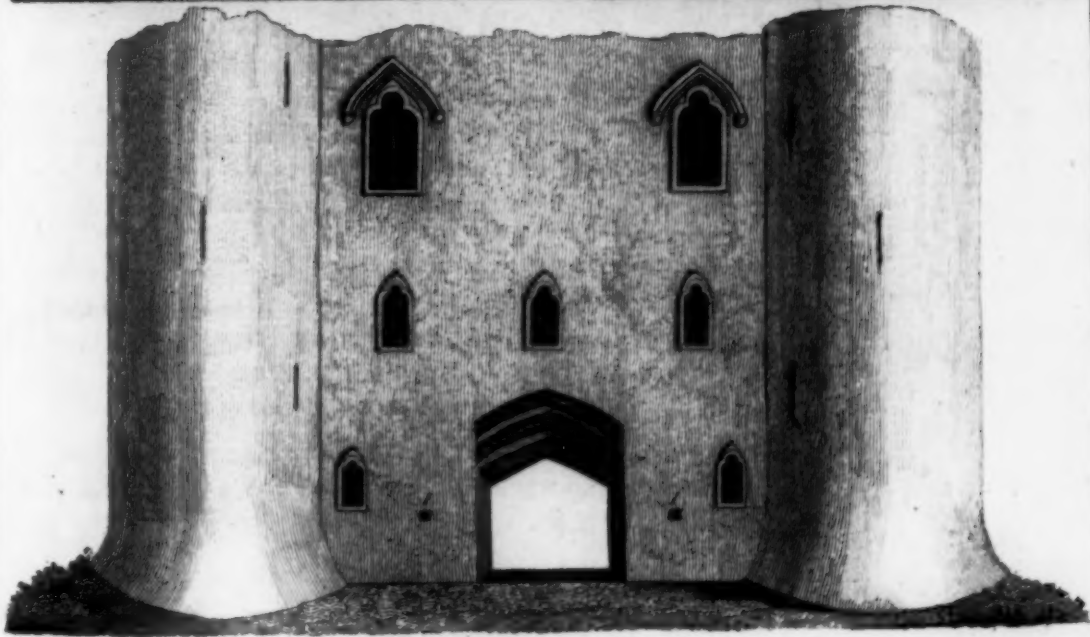
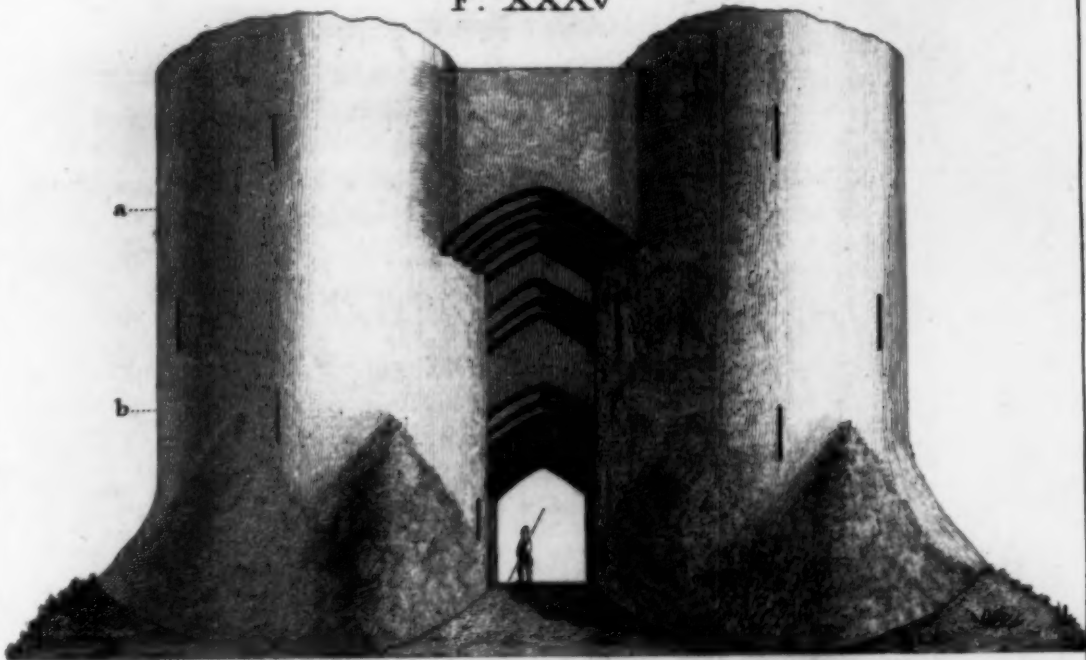
Fig. XXXVI. represents the inner south front, next the base court of the castle. The great windows of the state room are richly ornamented; but the other smaller windows, though of the same form, are without the enrichments over head. In the gate way appear the over-hanging arches, one within another; but neither so many in number, nor so lofty, as those in the other front. At (1.1.) are the openings of the small flues, in the wall, going down to the vaults beneath.

THERE remain only one or two things more to be observed, with regard to this extraordinary building; the great curiosity of which, has induced me to be more prolix and tedious, in the description of it, than I could have wished.

AND first there seems to be somewhat of a new improvement, in the device of several of the loop holes; for they are formed as represented Fig. XXXVII \*.

\* See the Plate, p. 286.

F. XXXV



F. XXXVI

*Tower of Entrance at Tunbridge Castle in Kent.*





THE lower part of the loop, on the outside, at (b), descending, by means of a sloping cavity cut in the wall, *far* beneath the original opening inwards at (c); and by that means giving a far greater command of the area before the castle, to the cross bow men; whilst, at the same time, it would mislead any one who should attempt to shoot a weapon into it from without; and would direct that weapon in such a manner, as to prevent its doing any harm; since it must strike either against the plane (b c), or against the top (d e).

IT is remarkable too, that the ornamental arches, forming the entrances to the recesses that lead to these loops, *dip below the rest* of the wall somewhat, in the manner represented, at (d); or even lower: so that although, at first sight, in consequence of the slope (e f), these loop holes appear more carelessly formed than those at Rochester, or Canterbury, yet they are in fact even more fully secured.

THE construction of the chimneys also is curious: for notwithstanding they are unavoidably represented in the plan, as if formed by means of recesses in the walls in the usual mode; yet, in reality, the wall at the bottom, behind each fire hearth, is level with the rest of the walls in the several rooms; and only is so formed, as to rise up from thence *sloping backwards continually*, within the thickness of the rest of the wall, till it reaches the loop of *exit*; in the manner represented F. XXXVII and so as just to afford room for piles of wood to be set up an end leaning against it, under the flue: which mode of construction must both have flung greater heat into the rooms, and have occasioned a better draught up the chimneys.

FURTHER it may also be observed; that, to avoid weakening the walls too much, the small rooms, and recesses, formed in them, are no where alike on the two sides of the tower on the same floor; but are placed counter to each other: so that if

the wall was at all weakened by the recess on one floor, the defect was made good in the strengthening of the next \*.

It has been remarked to me also, by the present curious proprietor, that singular care seems to have been taken even in forming the mount; for that, from the looseness of the earth near the centre, (to which he made an excavation), it may fairly be concluded, that in order to give the whole work greater compactness, they began at the circumference, and continually poured in earth, as they advanced higher up, till the whole was finished. An odd process indeed, as it should seem at first sight; nevertheless such an one, as would certainly best preserve the exact form of the base, and also render the whole outward circumference of the mount more firm and compact; and thereby tend to prevent any settlement; except just in the centre; where it could be of no great consequence.

BUT notwithstanding all these various devices, and improvements; and the elegant construction of the whole of the great tower of entrance, beyond what appears in the towers of entrance at *Tickhill* and *Lincoln*; yet we may perceive, that the general mode of fortification, most peculiarly belonging to the Normans, and which was at their first coming introduced by them, has been carefully preserved, with all its characteristic marks, in every part of the general plan of this curious fortress.

WE find the high mount; the round keep on the mount; and the connexion of this, by a covered way, with the tower of entrance †.

\* Some years ago the very quarry was discovered, at only a few miles distance, from whence the stone was taken with which this tower was built.

† I should be sorry to indulge myself in carrying conjectures, relating to high antiquity, too far; but, when I consider with what care and pains a magnificent state room has been formed, in every one of these kind of towers of entrance,

THERE

THERE are many castles of this kind of construction in different parts of this kingdom: amongst which we may now safely venture to pronounce *Trematon castle*, in Cornwall, to have been a Norman structure, of the first age, notwithstanding the doubts of the ingenious Dr. Borlase to the contrary \*; and that it was built by Robert earl of Moreton and Cornwall, half brother to the Conqueror.

*Restormel castle*, in Cornwall, seems also to have been another structure of the same age †. But I agree with Dr. Borlase, in concluding *Lanceston castle* ‡ (which he has so accurately described) to be of much higher antiquity: and must place it, (both on account of the manner in which the staircases are constructed, and on account of the small dimensions of the area of the inner tower,) amongst the very first *Saxon castles*: and deem it to be even of more early date than *Connisborough* itself.

NAY perhaps I should not greatly err, if I were to venture still further, and to conclude it to have been a work of the ancient Britons, erected in the first ages, in consequence of that great degree of art, beyond the rest of the Britons, which the Cornish men might attain to, by means of their great intercourse with such foreigners as came from afar to trade for tin.

WHENCE either the rude Picts, or the Celtic Britons, or the primitive Saxons, or the Normans (all whose buildings have some distant resemblance,) derived those first ideas of military architecture, which seem so unlike the Roman, cannot be precisely ascertained: but it is very remarkable, what a great similarity there is between this castle at *Lanceston*, and the description given by Herodotus of *Ecbatana*, the capital of Media,

I cannot but reflect upon what we so often read, with regard to the earliest ages of the world, of *King's sitting in the gates of cities*; and of *judgement being administered in the gate*.

\* Borlase's Antiquities of Cornwall, p. 355. † P. 356. ‡ P. 358.

built in the first ages of the world; and of that part particularly, which may be concluded to have been the keep of that ancient and magnificent fortress.

HERE at Lancelston we find (according to Dr. Borlase's accurate description\*) three great and elevated circular walls, towering *over*, and *behind* each other: namely, that of the first ward; that of the second ward; and that of the innermost ward, or central tower. Besides which, there is, on one part, the outward wall of the bass court of the castle; which would appear, in many directions, at a distance, as a fourth wall beneath the rest.

It is almost impossible for any one acquainted with ancient history to view these, and not to call to mind what Herodotus says of Ecbatana†. He tells us, *Dejoces* compelled the Medes to come under one polity, and to build a city surrounded with fortifications; and that those strong and magnificent walls, which were known under the name of *Ecbatana*, were then built. They were, he says, of a *circular* form, one within the other; and each gradually raised just so much above the other as the battlements are high; the situation of the ground, which rose by an easy ascent, being favourable to the design. *The king's palace, and treasury*, were built within the *innermost circle* of the seven which compose the city. The first, and most spacious of those walls, was equal in circumference to the city of Athens; and white from the foot of the battlements. The second, black: the third of a purple colour; the fourth blue: and the fifth of a deep orange: all being coloured with different compositions. And of the two innermost walls, one was painted on the battlements, of a silver colour; and the other gilded with gold. Having thus provided for his own security, he ordered the people to fix their habitations, without the walls of this city.

\* See the *Antiquities of Cornwall*, p. 358. and the accurate *engraving* annexed to Dr. Borlase's description.

† Herodotus, Book 1st.



IN this description, surely, we have very nearly a description of Lanceston castle, and the adjacent town: almost the only difference being, that the scale, in one instance, is rather larger than in the other\*; and that the battlements of the walls of the one were painted with different colours, and those of the other left plain.

AND the comparison may, without any forced inferences, be allowed to afford much room for many new speculations, on the progress of *Celtic* arts and customs from Asia, and the parts of the world first inhabited, through the northern parts of Europe: but having no opportunity of coming at further materials at present, for tracing this matter, I must leave it, as a subject of enquiry for others.

I CANNOT, however, forbear observing, that the judicious Mr. Cordiner concludes most of the *duns*, or round towers, in Scotland, to have been built by the Danes†: and informs us, from good authority, that the Picts were connected with the Norwegians, who (under the command of *Harold*) assisted them to endeavour the recovery of their lost possessions in Scotland‡. Whence I think we may infer, that

\* When I read (in the 9th chapter of the 2d book of Kings) that on Jehu's being anointed King over Israel, at Ramoth-gilead, the captains of the host, who were then sitting in council, as soon as they heard thereof, took every man his garment, and put it under him, *on the top of the stairs*; and blew with trumpets, proclaiming, *Jehu is king*; and when I consider the account given by Herodotus, of the ancient Ecbatana, which was at no great distance from Syria, and in a country much connected with it; and reflect also upon the appearance of the top of the staircases, both at Lanceston, and Connisborough; when, I say, I consider all these circumstances, I am very apt to conclude, that at either of the two latter places is still to be beheld, nearly the same kind of scenery, as to building, which was exhibited to the world, on the remarkable occasion of inaugurating Jehu at Ramoth-gilead: but I dare not to determine precisely on a matter of such very high antiquity; and leave every one to form his own conclusions, from what has been here laid before him, as to the affinity of these kinds of buildings; and the derivation of their original plan from the east.

† Cordiner's Antiquities of Scotland, p. 81.

‡ P. 127.

all their buildings had one and the same *Celtic* original, jointly with the Norman castles, and with these structures of the earliest times in Cornwall. And sure enough they differ not the one from the other hardly at all, except in such a manner as they might well do in consequence of the slow advancement of civilization amongst the various people who built them \*.

HAVING now investigated *three*, successive, different methods of constructing these important Fortresses: namely, the ancient Saxon; the improved magnificent buildings of Alfred, and his successors; and the first Norman piles: we may easily perceive how the next alteration was introduced.

THERE were but few castles in England before the Normans came, which (as Dr. Borlase observes †) greatly facilitated their

\* Of these Duns we have now many very curious descriptions. Particularly of Dun Agglefag, (by Mr. Anderson, in the *Archæologia*, vol. V. p. 254. and by Mr. Cordiner in his *Antiquities of Scotland*, p. 118.) in which Dun appears just such a sort of staircase as that at Connisborough.

Of the Dun of Dornadilla, by Mr. Pope, in like manner in the *Archæologia*, vol. V. p. 216. and also by Mr. Cordiner in his *Antiquities of Scotland*, p. 105.

Of the Dun in Glen-elg by Mr. Permant, in his curious voyage to the Hebrides, p. 338.

Of the Dun, at Achir na Kyle, by Mr. Cordiner (in his *Antiquities of Scotland*, p. 74) who adds (p. 75) that wherever good pasture is found near the less rugged forests, there one meets with the remains of a circular tower. All of which structures have been originally built on the same plan, and appear to have been the residence of the chief families of a hardy race, in a very early age.

In the same curious work (p. 80) we have also an account of the remarkable castle at *Oldwick*, just one remove, in point of the improvement in Architecture, from these Duns: and perhaps one of the first attempts after the introduction of the use of Iron tools.

Mr. Cordiner moreover, describing *Kildrumy castle* in Scotland, says, all the vaults, in one of the towers, are left open in the middle; through these passed a masonry chain, suspended at the top, reaching down to the ground, for the more commodiously raising water for the use of the upper apartments. Some old men, who remember when the chain was taken away, say, that there was a deep well underneath. (Cordiner's *Antiquities of Scotland*, p. 16.)

† *Antiquities of Cornwall*, p. 366. *Dugdale's Warwickshire*, p. 426.

con-

conquest: and William was so sensible of this circumstance, and saw the use of such fortresses so strongly, that he immediately promoted the building of new ones with all possible ardour. Several therefore were soon constructed, as we have seen, on the original Norman plan, by himself, and certain of his chieftans. But amongst other persons whom he employed, and consulted, on the occasion, was that great, sagacious, and ingenious man, Gundulph, bishop of Rochester. This extraordinary genius began to reason with more acuteness upon the subject than any architect had done before: and (being employed about the year 1078, to direct the building of the Tower of London\*, and of some other fortresses), determined to unite together all the excellences of former structures, (both those of Alfred's castles, and those of the great round towers of his own countrymen): and to add many new inventions; for the sake of increasing not only the security, but also the magnificence, of these Piles.

His mode of building was immediately so greatly admired, and so soon came into fashion; that although the prejudice, in favor of the old plan, long continued amongst the Normans; and many castles were still daily built according to it; yet many also, in the very same age, and even in the very same years, were erected on Gundulph's.

He determined to get rid of the awkward labour of raising high artificial mounts, by way of defending the entrance and approach to the keep; despised the inconvenience of the central well, for the purpose of affording air, and light, in the round towers; and saw many defects even in the great castles of Alfred; especially in their want of inward defence to the loop

\* Stow's Annals, p. 117. See also Stow's Survey of London, p. 78. where it is added, with the usual minute accuracy of that curious Antiquary, from unquestionable authority, that, during Gundulph's residence in London to superintend the work, he lodged with one *Edmure* a burghers in the neighbourhood.

holes in the lower apartments, and in the unguarded design of their great windows above.

In short, to him appears clearly to be due, the honor of the invention of the noble high elevated portal, so compleatly defended by drawbridges, gates, and Portcullises (all placed in the most judicious manner) in lieu of the high mount; the invention of the mode of properly defending loop holes; the invention of wells, *concealed in the walls*, for the purpose of drawing up timbers; the improvement of the manner in which galleries of communication were constructed in the walls; and other judicious devices, with regard to the situation of staircases; and an improved mode of constructing even the very Dungeons.

THE noble proportions, and disposition of the state apartments, was also another excellence in Gundulph's keeps; as well as the stately mode of approach, and ascent to them\*.

HIS castle at Rochester, which I have fully described in my former paper, is so compleat a specimen of all that he effected; that the mode of defence introduced in this next stage of the progress of military architecture, hardly needs to be any further enlarged upon.

I SHALL only, therefore, beg leave just to give a short answer to an objection or two, which I understand has been made to my former paper, by some persons not thoroughly acquainted with the subject. They have conceived, it seems, that the

\* I cannot help mentioning, as an instance of the singular ideas of defence and security which this extraordinary man conceived, his treasury, built very near the church at Rochester; which is an high, strong, insulated, square tower; as lofty as the top of the church; but having neither door nor window, nor any other means of entrance, than by an arched bridge, from the top of church to the top of the tower, easily broken down on any emergency. This tower still remains, on the North side of the church.



wells and galleries formed in the walls, and so minutely described by me in the account of the castle of Rochester, were made merely for the purpose of drying the stone-work; and that timbers might have been drawn up *on the outside*. But every one, who examines them, must see that these wells and galleries are much too large for such a purpose *merely* as that of drying the building, and very ill adapted to it; because they open inwards, and not outwards. To which remark it may be added further, that if such had been their design, they would have been found as frequently in other castles (where the walls are equally thick), as in those of Gundulph's; whereas they are not. And as to the drawing up timbers on the outside, which the objectors to my former paper have fancied might have been so easily effected; a little reflection will shew it was impossible to be done during a close siege, when the bass court, and all the environs of the tower, were in the hand of an enemy; as was actually the case in the very siege of Rochester, mentioned by Holinshed, which I gave an account of in the conclusion of my former observations; and as was also the case in the siege of the castle of Malmesbury, of which Holinshed says, "Duke Henry did win in 1151, the *master tower*, or *chief dungeon*: for (as Simon of Durham writeth) he had won by assault *the other parts and lins of the castle before* \*."

STORES, and large timbers, to construct and repair machines of war, could not be conveyed, at such a time, when most wanted, from the vaults beneath, to the top of the castle, by any other means, than either by the old *central wells*, found in the more ancient castles, or by *these* more artificial wells of Gundulph's invention.

SOME idea of the unweildy bulk of such machines, may be conceived from what Camden says of the vast arrows shot from old warlike engines, preserved and shewn in his time, in the castle at Dover †; and from what Bishop Gibson says of the balls of

\* Holinshed, vol. III. p. 60.

† Gibson's Camden, p. 205.

stone, still found near Kenelworth castle (16 inches in diameter) thrown in the barons wars\*, which must have weighed at least 200lb. weight; and seem to have resembled those seen by Maundrell†, near the old fortifications of Acra in Palestine, that were 14 inches in diameter.

ALTHOUGH, however, there needs no further description of Gundulph's curious and noble towers, than what my former paper contains; yet a little attention deserves to be given to those which he (or persons who followed his method) *merely altered*.

I SHALL therefore here add a further, and more exact account of Canterbury castle; which I have had an opportunity of examining most minutely, since the publication of my former observations; and which I find to be still more curious, in many respects, than I was at that time aware of.

THE great ancient Keep, at Canterbury, has the same kind of Norman Saxon ornaments with that at Rochester; and both from that circumstance, and from the introduction of so many of Gundulph's modes of defence, appears clearly to have been finally compleated, either under his direction, or at least in his manner, and in imitation of his works; yet it does also as clearly appear, from some other circumstances, that the original solid mass of the walls was constructed before that time, and was of a still more early date; and indeed there is good reason to conclude, that this building was one of the great castles of Alfred; altered, new cased, and improved, in Gundulph's manner, about the time of William the Conqueror.

IT is well known, that there is, from the neglect of our historians and antiquaries, or from their want of information, the

\* Gibson's Camden, p. 513.

† Maundrell's journey from Aleppo to Jerusalem, p. 54. This curious and faithful traveller says, that in the castle of Damascus he also actually saw an old Roman Balista, p. 126. And it is not a little remarkable, that we read of the invention of these kind of engines, so early as in the days of Uzziah king of Judah. See 2 Chronicles, c. xxvi. v. 15.

greatest uncertainty about the *era* of the building of this castle : and all that has hitherto, in any shape, been agreed upon, with regard to it is, that a Castle was *here* in being, about the time of the Conquest, either then newly raised, or repaired.

CAMDEN declares \*, that he has nothing memorable to say of it; only that it was built by the Normans. But Somner †, with more caution and judgement, concludes it to have been built *before* the Conquest; because it appears, in Domesday Book, that the King had this very castle in *exchange*, from the Archbishop and Abbot of St. Augustine's, for twenty-one burghs, 14 paid to the Abbot of St. Augustine's, and 7 to the Archbishop: and yet he justly infers, that it was not in being so long before, as when the Danes took the city, in 1011; because of its not being mentioned either by Hoveden, or Spott, who minutely describe the siege. It follows, therefore, that it must have been of the same age, originally, with the rest of what I call Alfred's great castles.

THE same conclusion may also be drawn, from the original entrance being in the same part of the building, as the original entrance at Colchester, which was built by Edward the Elder; and the alteration, which we shall find was made by Gundulph, or at least in his style, by the addition of a new and more magnificent portal, is no more than was afterwards done in the other great *Saxon* castles, which we are acquainted with: for I have shewn, in my former paper, that an addition of a *new* and *great* portal, was made at Colchester ‡, even in still later ages, and most probably after the time of Edward I; and that a new portal, and magnificent stair-case, almost exactly in Gundulph's style, were added to Canute's great castle at Norwich §, by Thomas de Brotherton, in the time of Edward II.

\* Gibson's Camden, p. 179.

† Somner's Antiquities of Canterbury, p. 19.

‡ Archaeologia, Vol. IV. p. 406.

§ p. 597.

To avoid the perplexity and trouble, which would be occasioned by referring to my former paper, in order to explain the additional matters of curiosity discovered in this building, on my more accurate survey, I shall now describe the whole, *de novo*.

FIG. XXXVIII. is a plan of the ground-floor of the castle, to which there was no entrance from without, on the same level.

(a b) is the place of the original ancient Saxon steps, on the outside of the castle, towards the N. E. by E. (b i) being what actually remains firm and solid of this foundation.

AT (f) are most perfect remains of the square well, and trap, for letting down prisoners, and their provisions, into the dungeon underneath, at (D).

AND (g g) is a very small flue, for air thereto, passing through the most solid part of the foundation.

THE partition wall, both of the dungeon, and vault above it, is now destroyed; and therefore we cannot precisely ascertain where the door was, or in what manner exactly it was constructed; but I cannot omit mentioning, that when I first surveyed the castle, an old man, attending me, said he remembered some steep steps somewhere in this very part, within the building; only the place where they were is now buried and filled up.

AT (c), is the well for water; descending the whole way, from the upper part of the building to the bottom, through the substance of the wall.

AND at (e), a stair-case, which went no higher than from the ground to the first floor above: from whence, and from its nearness to the well, we may fairly conclude this apartment (K) to have served as a sort of kitchen, although it is now so blocked up with rubbish, that we cannot ascertain where the places for fire-hearths were.

THE



Fig. 1. Plan of the site.

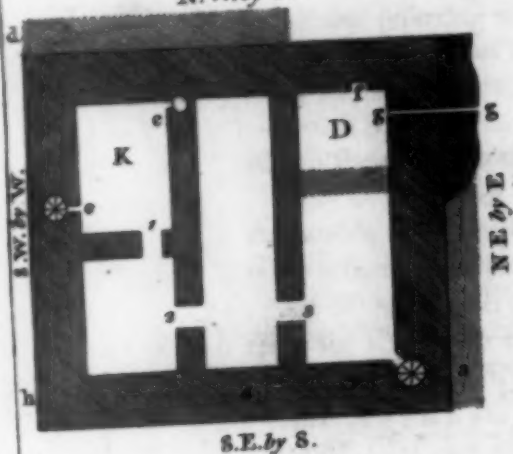


Fig. 2. Plan of the site.



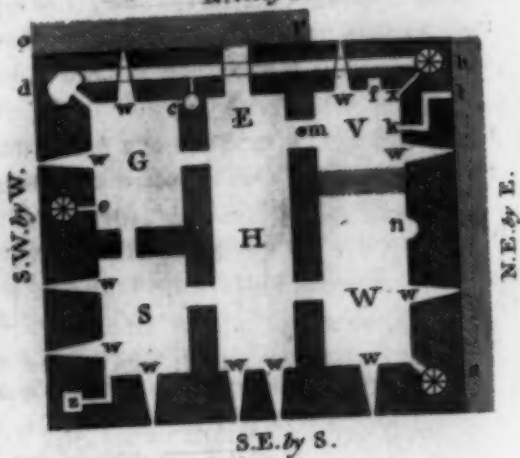
F. XXXVIII

N.W. by N.

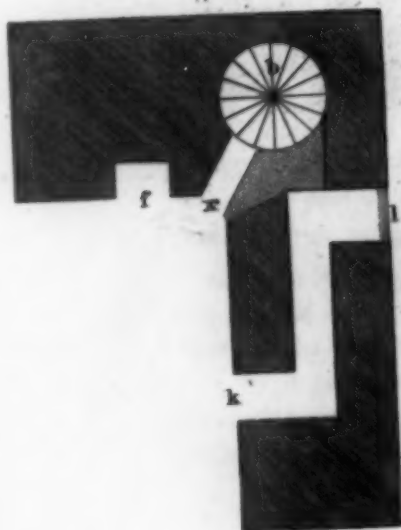


F. XXXIX

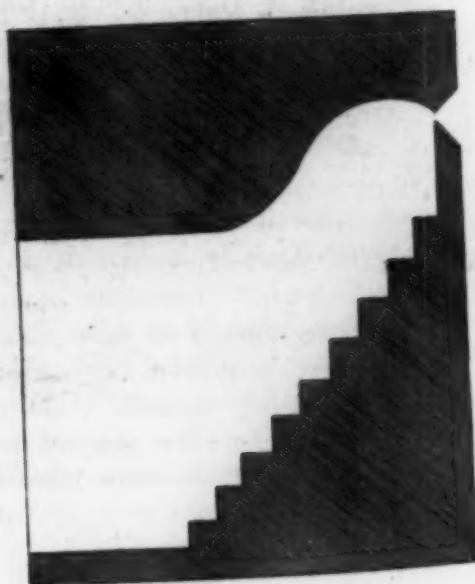
N.W. by N.



F. XL



F. XLVI



THE other three rooms were only great vaults, serving for store-rooms; and communicated by arched passages, at (1), (2), and (3).

AT (a) is a stair-case, going quite from the bottom of the castle to the top; being the only one that does so; and placed, therefore, as far as possible from any original entrance from without.

AT (4) and (5); are the modern breaches, and forced entrances: but there manifestly never were any original entrances, in these places, in ancient times.

THE well, the design of the stair-case, and the descent into the dungeon, answering so compleatly to the design of those in Gundulph's towers; might reasonably induce one to look for square wells in the walls of this castle, for the drawing up the beams of military machines; those wells being (as far as appears to me) the invention of bishop Gundulph; but such being neither known at the time the walls of this building were first erected; and solidly built from the ground; nor capable, in their nature, of being hollowed out, or formed therein afterwards; we find none of them here. And I cannot but add, that their not being found here, is surely a *very strong proof*, that such wells had a designed, important use, wherever they are found; and were not mere flues, for drying of the walls, as injudicious persons have hastily conceived.

FIG. XXXIX. is a plan of the principal floor, where many still more curious particulars are to be observed.

(a b) does here (as before) represent the ground plot of the original Saxon flight of steps; at the top of which, at (K), was the first, and most ancient, grand entrance, in the same part of the building as at Colechester; but it was not by a stately open passage, as was usual in subsequent portals, but by a narrow entry, formed in this instance in a zigzag direction, with great caution, so as to prevent the sudden admission of a  
numerous

numerous armed force, notwithstanding the appearance of a large wide portal externally; and in such a manner, that one man might defend it against an whole army, much more easily than *Horatius Cocles* did the bridge *Sublicius* at Rome against the army of *Porfenna*: for it is evident, that, in such a passage as this, no soldier, endeavouring to force an entrance, could use either a pike, bill, or halberd; or indeed any other weapon except a short sword; whilst those who defended the entrance *within*, might use all, and apply many weapons at once to obstruct his progress.

Its form is represented more at large, *Fig. XI.* The first straight passage, from the outward portal (l), being no more than 5 feet 6 inches in length; the next turn, being 14 feet long, and much narrower, having only 2 feet and 9 inches in width; and the third turn, to (k), being 6 feet in length, and no more than 3 feet wide; and the whole passage being only about 8 feet in height.

THIS entrance opens inward, through an arch, represented in front, at (a), *Fig. XLI.* which, in my former imperfect view of the inside of this castle (when I could only examine it through crevices of doors fixed in the modern breaches) I did not fully perceive the nature of; being not aware of the curious device of the winding passage within the wall.

AT (b), is a great window, near the passage of entrance; but placed so high, and having the opening so small, that it could be attended with no inconvenience or danger.

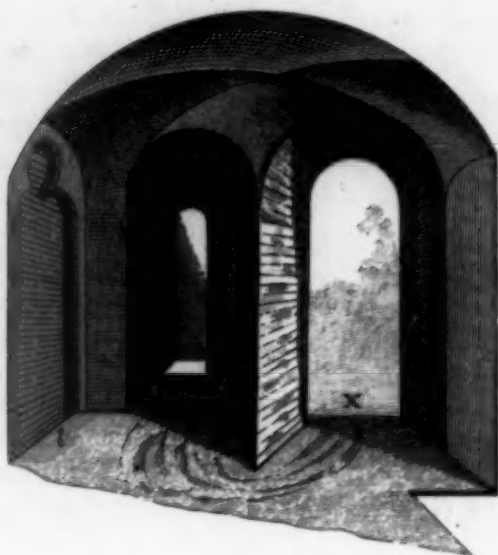
*FIG. XLII.* is a view of the inside of the winding passage of entrance (l k), and of the inside of the original great portal at (l), now bricked up; and also of an arched door-way, at (x), leading from the rooms within the castle to a stair-case in the corner; between which door and the winding passage, there must formerly have been a strong wall, to secure and inclose the latter; but *this* having been broken down, a communication has subsisted for many years of late, immediately between the  
outward



F. XLI



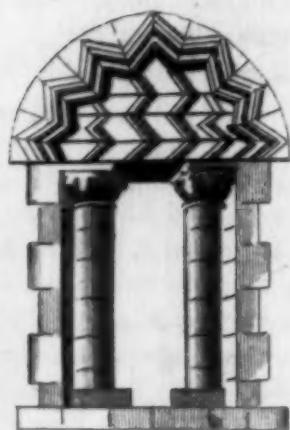
F. XLII



*Window and Crooked Entrance in Canterbury Castle*



F. XLV



*Door Way and Outside of Window in Canterbury Castle.*

outward portal (before it was bricked up) and the stair-case in the corner, which may easily *now* mislead an inattentive observer.

By referring to the plans (Fig. XXXIX. and XL.) the whole of what is said will be best understood. The same figures (lk) shew the passage; as (x) does the door leading to the stair-case: and at (b) appears the stair-case itself in the corner; and the dotted part shews where the wall once was, that is now broken down.

THE entrance, from the winding passage just described, was into a small room or vestibule (v). Directly on coming into which appears, on the right hand, at (f), the top of the trap, and descent, into the dungeon; the whole of which pipe of descent remains still well formed in the wall.

AND it is very remarkable, that the flight of stairs, near to it (at x and b), does not go down to the dungeon, nor descend any lower than this floor; but only leads up to the galleries in the wall, and to the top of the castle.

As a further proof of this winding passage of entrance, just described, being the original and principal one; there appear moreover, at (m), the remains of a double arch; which must, of old, have formed a noble and magnificent communication, between the vestibule and the great hall (H).

A VIEW of its remains is shewn, Fig. XLIII.

FROM this Hall is an arched passage, leading to what seems to me to have been a guard-chamber (G). A room, which I the rather suppose to have been designed for this use, because there is here, at the corner (d), a small chamber (like that at Rochester) hollowed out of the wall, and divided off from the great room, as a little separate place of abode, intended probably as a badge of dignity, for the sole use of the captain of the guard. There being also most ready access to the well at (e), for the use and supply of the garrison, seems moreover to denote this room to have been their most usual place of rendezvous.

IN

IN this room also, at (e), was the head of the stairs, going down into the vaults, and lower apartments, described in the former plan.

FROM this guard-chamber was an arched passage, into what appears to have been one of the governor's state-rooms (S); which has more light and airyness than any of the rest upon this floor; there being three great windows in it. And from hence, through the great hall, was a way to what may very well be called a great winter room (w), there being in it, at (n), a large fire-hearth; and only two windows.

AT (a) is the only stair-case that goes quite from the bottom to the top of this castle. But at (b), near the side of the original entrance, is (as I have already mentioned) another stair-case, that goes up merely to the galleries in the walls, and to the top of the castle, without descending any lower than this floor: and between (b) and (d) are the two galleries, one above the other, included within the thickness of the wall, and communicating with the well, and with the apartments both on this floor, and in that above: but so contrived, as to receive no obstruction from the windows: neither did they break in upon the subsequent great portal, which was made at (E), and placed beneath them, and which shall presently be described.

AT (z) was a privy, having a passage leading to it from the corner of the room (S).

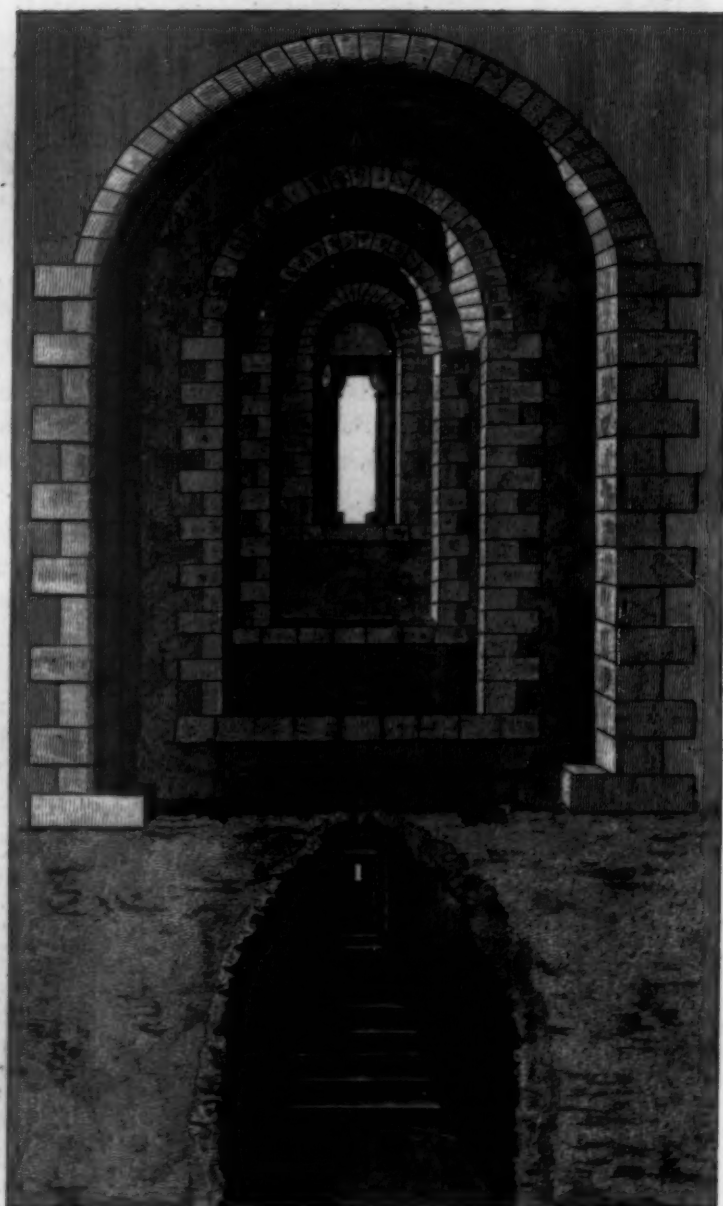
THE great windows in all the rooms are marked (w), and their beautiful and magnificent construction, on the inside, is represented Fig. XLIV, as their form on the outside is represented Fig. XLV.

UNDERNEATH these, in the apartments next below, were the loop-holes for cross-bow-men; which evidently appear to have been altered, and improved, in Bishop Gundulph's best manner, and long after the first construction of this castle.

THEIR



F. XLIV



*Window and Loop in Canterbury Castle.*

*Figure 2.*



THEIR appearance within is represented in the lower part of Fig. XLIV, which shews the end of the room, beneath that where the window is.

AND Fig XLVI. is a section of the form of their construction; they being, if possible, still more guardedly and carefully contrived than those at Rochester.

THERE are no less than twelve feet, from the bottom of the steps to the loop-hole; and twenty-six from the ground to the bottom of the loop; which indicates that there were vaults, without loops, under the apartments in which the latter are found.

BUT, as I have already intimated, the improved construction of the loop was not the only addition made, in the best Norman manner, in this castle; for there appears to have been also added a still more magnificent mode of entrance; in consequence of which the former narrow entry was laid aside, or at least rendered merely subservient to the new one, and turned into a *sally port*.

THIS new and subsequent great portal was, in all probability, defended, on the outside, throughout the whole ascent to it, with several gates and portcullises, like that at Rochester: the external vestiges of them however are now destroyed; and therefore we can only draw this conclusion, from its similarity in other respects.

A NEW and additional grand portal, there certainly was at (E), and it led immediately into the great hall; where now is seen a large arch of stone, having every appearance of being, most clearly, an insertion made long after the first finishing of the original building; and having beneath it, at (o p), an appearance of the remains of foundations of a flight of steps.

AND this situation of a subsequent grand portal, on this side, most exactly agrees with the account given by Somner of the last principal entrance, according to the best information he could procure: whilst it is an alteration of a similar kind with (though of a much earlier date than) that at Colchester; where the old

and more confined mode of entrance was also cast aside, and disused, after better modes of defence, by means of portcullises, and double or triple gates, were introduced by the Normans.

SOMNER says \*, the entrance of the castle *seemingly* was, by an ascent of steps, *porcht over*, on the west side. By which however he must mean the side fronting NW by N; where there still are, at (E), remains of the great portal just described; the arch of which is rudely filled up with flint work, just in the same manner as the still more ancient and original portal at (I), is now filled up with brick work.

To prove still further that the principal entrance was on this (commonly called the west) side, he moreover cites the recital in an ancient deed, recorded in the Leiger Book of Estbridge hospital. And his mentioning this entrance as being *porcht over*, plainly indicates that here were gates, with a portcullis, and the usual mode of defence; and a passage leading through a *porch*, or little tower, at the top of the ascent of a flight of steps, as at Rochester and elsewhere.

AND NOW, having mentioned the authority of this faithful antiquary, I must beg leave just to make a short observation or two, concerning the *bearings* of this castle; both to explain Somner's description, and also to reconcile the account, *here* given, with that in my former paper; and to satisfy some doubts that I know have arisen concerning this matter. Therein I named (ab), the *east* side; in consequence of which designation, that which Somner calls the west would be the north. Nevertheless, that I did right (as far as any regard to the cardinal points *alone* was proper) must be evident to any one acquainted with the compass; for NE by E, is nearer to the east, than to the north: and NW by N, (the side where the second grand portal is found,) is nearer to the north, than to the west: and therefore (if the cardinal points alone are to be referred to;) (ab)

\* Antiquities of Canterbury, p. 18.



should be called east, and (b d) north. It is no wonder, however, that Somner, following the ancient deed, calls (b d) west, and of course (a b) to be north: for in these later days, of greater accuracy, a worthy friend of mine \*, solicitous for the accuracy of any observations I might venture to lay before the Society, apprized me, with great diligence, of my supposed mistake; and his information distressed me so much, (knowing the caution I had used in making my observations by the assistance of a good compass,) that I directly took a journey to Canterbury, at a most inconvenient time, merely to repeat those observations; and then it was I discovered, what had occasioned both his error, and that of Somner, and of the ancient deed; which was *an adjacent church*, with which the bearings of the castle were compared, and which was concluded to have stood, (as most are supposed to do), directly east and west, whereas it by no means does so.

I MUST conclude, therefore, as far as the cardinal points are concerned, my original description to be right, and Somner's to be wrong: but yet, for the sake of conformity of description, I here adopt Somner's *bearings*; whilst yet, for the sake of truth, I give the real ones.

A VERY few more curious circumstances I have to mention, before I quit the description of this extraordinary building.

AND, in the first place, I must observe, from Somner's account, that in this castle, as in many others, it appears there was regular *castle guard* to be kept, by *certain persons*, in *certain stations*: for he says †, speaking of the gate we have just been describing, "This gate had its *usual porter or keeper*. I read ‡ that one *William Savage, keeper of the gate of the castle in Canterbury, was questioned* (i. e. probably *racked*) for taking the daughter of Hamon Trendherst by force and arms, over against the castle of Canterbury, and carrying her into the said castle, and there holding her eight days and upwards."

\* The reverend Mr. Duncombe, of Canterbury.

† Antiquities of Canterbury, p. 18.

‡ In the Crown Rolls, anno 15 Edw. II.

IN the next place it may clearly be inferred, from a circumstance which Somner says he derived also from information in the crown rolls \*, that although this castle was certainly one of those appointed to be *prisons*, so early as the time of Edward the Second (and probably long before); yet that the appointment related not to the whole building, but merely to the general power of confining persons here; and that the prison itself was only of such a nature as I have described in my former paper; and perfectly consistent with the idea of the rest of the Keep being considered, at the same time, as a *palace*, and being the residence of the constable, or lord, to whom it was granted. In short that the prison was confined merely to the small dungeon, and its appendages; whilst some of the prisoners (like those we read of in more ancient times) were suffered to be more at large; restrained only by being chained, either to one another, or to soldiers †; or by being attended, wherever they went, by some soldier, as a guard.

THE record, which Somner alludes to, says, “ *Walter de Wendering, and Martin at Gate de Lamberburst*, prisoners of our lord the king, in the castle at Canterbury, sat bound in a certain place called Barbican ‡, nigh the same castle, to beg their bread. It happened, that, on Shrove Tuesday, in the reign of king Edward II. before sun set, the same Walter broke the padlock, or a link of the chain, with which he was bound; and drew away with him the said Martin, to the church of St. Maries of the castle, where he remained, and abjured the kingdom of England; and Martin, of his own accord, returned to prison.”

\* Antiquities of Canterbury, p. 19.

† One cannot but recollect, on this occasion, what is said of the manner of St. Peter's confinement at Jerusalem; in the Acts, c. xii. v. 6. and of St. Paul's at Rome, c. xxviii. v. 16.

‡ The *Barbican* was generally some small round tower, for the station of an advanced guard, placed just before the outward gate of the castle yard, or ballium.

FAR different was the nature of this prison in subsequent reigns, when the idea of the castle being a *palace* was forgotten; and when in the persecuting days of queen Mary, five poor protestants were (as Fox records) furnished to death in this castle, the common necessities of life being denied to them. Such a circumstance, and the consideration of the cruelties exercised in these kind of fortresses, in times of war, (concerning which we read, that at Rochester, on its being taken by king John, all the  *demi-lances* or yeoman, and all the *arcuballifers*, or cross-bowmen, who had bravely defended the castle, were hanged\*), may well make us join in the same sort of exclamation, with regard to these buildings, as Lambarde does with regard to the religious houses at Canterbury †: and make us say, with him, that as on the one side, in respect of the places themselves, we cannot but pity and lament their general decay, and the loss of such ancient remains of curious art: so on the other side, considering the many seas of sin and iniquity to which they were subservient, we cannot but rejoice over their destruction.

LASTLY, I must just add a word or two concerning the ancient *Hebrew inscriptions*, said to be verses of the Psalms, mentioned by Dr. Plott in a letter to bishop Fell, and supposed to have been inscribed by Jews, who were in former times prisoners in this castle.

THESE inscriptions were partly on the wall of the staircase, at (a), going from the bottom to the top of the castle; and partly on the walls of the guard chamber (G) where Mr. Fremoult, the present proprietor, saw them in 1732 ‡; soon after which time they were taken away: And they seem to give us a proof, that, at whatever time these poor Jews were prisoners, whether in the time of Richard I. or Edward I. that they had yet the permission of rambling about the castle:

\* Holinshed, vol. III. fol. 188.

† Lambarde's Perambulation, p. 296.

‡ As I have been informed by my worthy friend the reverend Mr. Duncombe, of Canterbury.

(like the prisoners before mentioned in the time of Edward II.) under certain restrictions; and amused themselves, in the company of the guard, and other domestics, in their own way.

OTHER castles, besides Rochester and Canterbury, constructed in the same style, are to be met with in various parts of this kingdom, and well deserve the attention of the curious. The great tower at Newcastle, built by Robert son of William the Conqueror\*, when he was sent by his father against the Scots;—the castle at Richmond in Yorkshire, built by Alan earl of Britanny and Richmond, nephew to the Conqueror†. And the great Keep at Dover, built by Henry II. are all imitations of Gundulph's plan: the noblest, and perhaps the completest, (considering the mode of carrying on war at the time when it was adopted) of any that has ever been devised.

HAVING thus described the two different species of great castles, introduced about the time of the Conquest; the latter of which, being so excellent in its kind, was imitated, with various small alterations, in succeeding reigns; the progress of this enquiry leads us, in the next place, to consider an irregular, *mixed species* of building, which gradually took place soon after; became much confused about the time of king Stephen (when so many fortresses were hastily constructed, without the same skill and attention), and continued in use till the reign of Edward I. a species of building, which, although of a later construction, was not by any means so perfect in its kind, as that which we have just been examining.

Of this mixed sort of piles I shall, for the sake of explaining their nature as fully as possible, give a particular account of three: namely of one of the earliest; and of one of the middle period; and of one of the latter of these kinds; which all differ from each other; but had every one of them a distant resemblance of one or both of the modes of construction introduced by William the Conqueror.

\* Camden, p. 856. Holinshed, vol. III. fol. 12.

† Camden, p. 762.



PONTEFRAC<sup>t</sup> castle \*, that murderous den, where, first, its owner Thomas earl of Lancaster was put to death, by Edward II. where afterwards Richard the Second was most cruelly tormented with hunger, and cold, and then, in some manner or other, assassinated; where the innocent Anthony earl of Rivers, and Sir Richard Grey, were murdered; was built by Hildebert Lacy, a Norman, to whom William the Conqueror gave this town, and the grounds about it, after having dispossessed *Alric* a Saxon. It was therefore probably built in the latter part of his reign, when he had been teized with many insurrections.

Its form bespeaks a Norman design; with imperfect, and rude alterations. The Keep (like the original Keep of the Normans) is situated on a mount; but of far less height than those.

LELAND says †, “the castle of Pontfract, of some called *Snorre* castle, containeth eight towers; of which the Dungeon, cast into six Roundells, three bigge, and three small, is very fair, and hath a faire spring.”

THIS Dungeon, or Keep, which he calls so fair, (from whence by the way we may conclude he did not mean a *gaol*, but a *palace*), is in part still remaining; having been too strong to be destroyed, by the waste of time, or malice of destroyers, or by the selfishness of those who coveted the materials; the three *small* roundells of ornament, however, are lost, and gone.

FIG. XLVII. is a plan of that corner of the area of the castle, where the Keep or Dungeon, just mentioned, is situated; and where was also the principal entrance.

(a a) are the first outward steps; ascending from without to the area of the castle.

(b b) a second very steep flight of steps, within the *Ballium*, ascending up the artificial mount to the entrance of the Keep.

\* Camden, p. 716.

† See his Itinerary, fol. 43.

(cc) is a narrow loop; well secured; and made through a wall no less than eighteen feet in thickness.

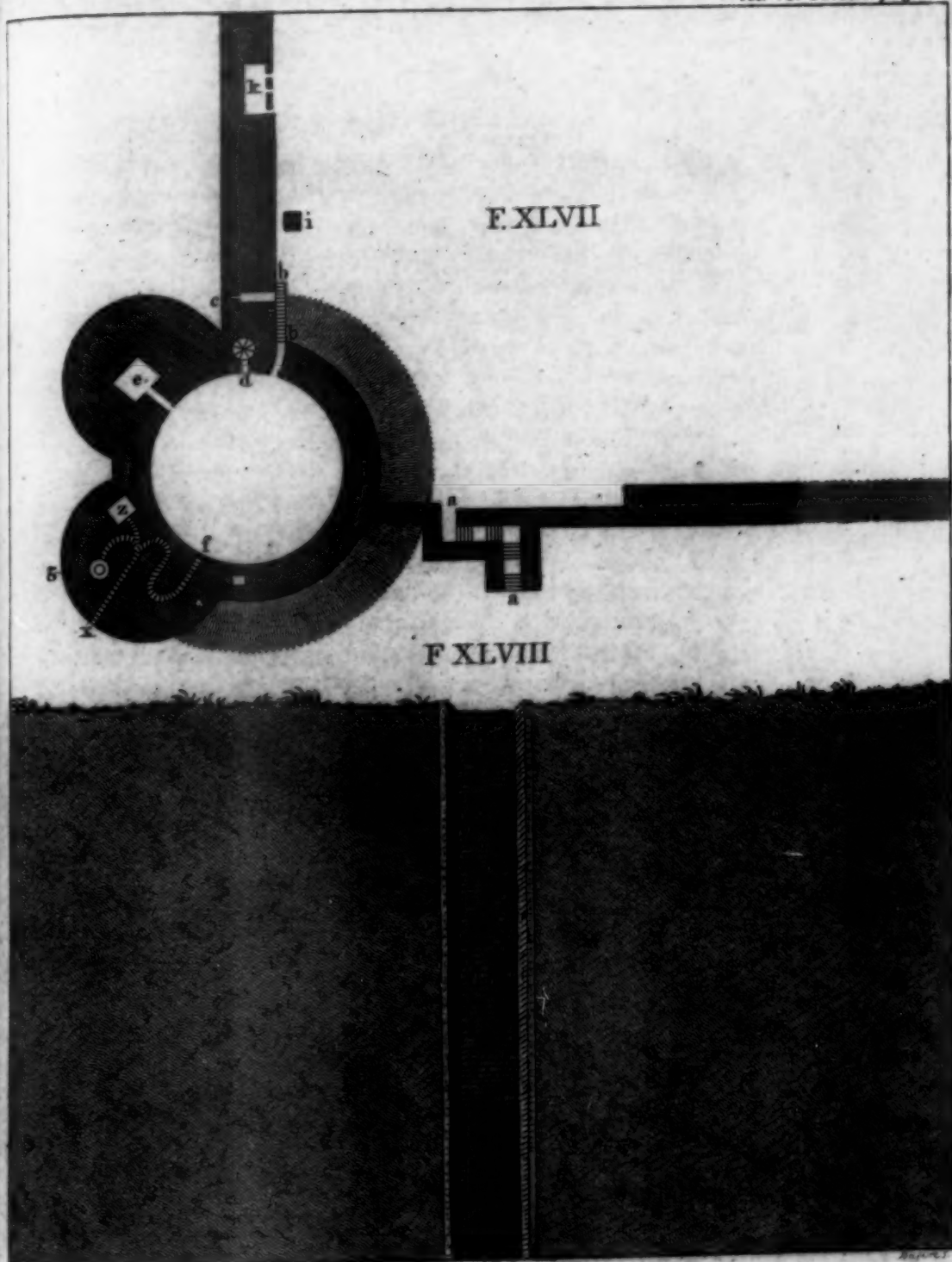
On entering the Keep, on the right hand, at (d), are remains of a great staircase, going up to the state apartments above; which are now all destroyed.

At (e), is a small square room; probably designed for the captain of the guard. It is in one of the three round towers mentioned by Leland: and all the substance of that tower, beneath this room, is solid stone work, quite to the bottom of the mount; which itself has no other facing here, than the walls of these two small round towers. A circumstance which shews the vast strength of this building, and the improvement made on the original Norman mount; and at the same time exhibits a curious device for deception, something like that of the round tower at Rochester.

THE other small tower, being in like manner continued down to the ground, beneath the mount, contains a very singular, narrow, and most irregularly winding, zigzag staircase; which goes down from the door at (f) to a small sally-port at (x); and moreover leads to what appears to have been a well at (g) (which I suppose was the *fair spring* mentioned by Leland); and besides this it terminates, in one part, in a very frightful small dungeon, at (z).

THERE do not appear to have been even loop-holes, or any admission for light or air, unless from the door, into the great lower apartment of the Keep; only there was a small window in the captain of the guard's room.

THE diameter of the Keep however is about 63 or 64 feet. And between (f) and (h) is a very remarkable appearance; for after you have ascended a ladder, against the inside of the wall, for a few feet, you then look down into a dismal square cavity, at (h); about 14 or 15 feet deep, or rather more; but only

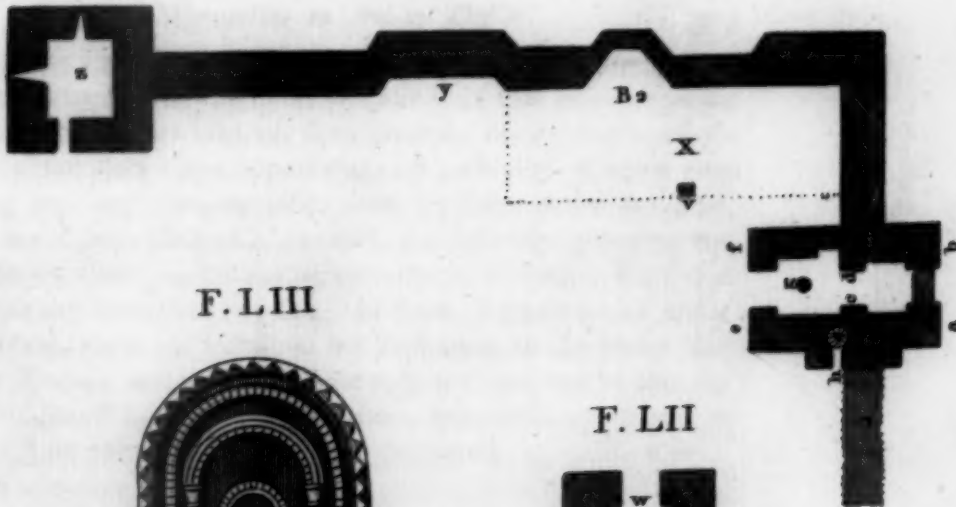


*Pontefract Castle, in Yorkshire.*

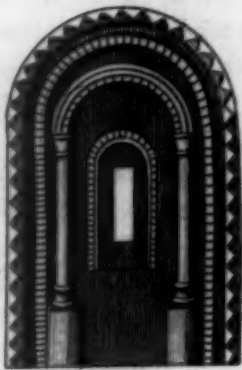




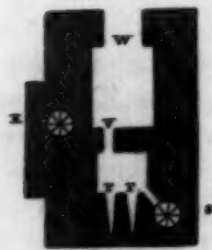
F. XLIX



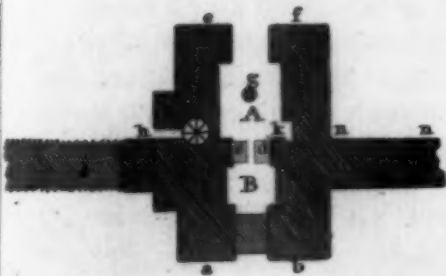
F. LIII



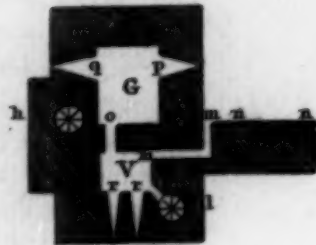
F. LII



F. L



F. LI



Newark Castle in Nottinghamshire.

Before J.



only about 5 or 6 feet square; which cannot be conceived to have been applied to any other purpose than that of a dungeon; since there is neither loop, nor door beneath; nor any outlet whatsoever; nor does there appear the least possibility of there ever having been any: nor could it, from its shape and dimensions, have served for a stair-case, or well, for drawing up timber and machines of war, or for any other purpose whatever, than that of a place of severe confinement. In short, it reminds one of the description, given by Sallust, of the Tullianum, in the ancient Capitol at Rome: and as it even now very well answers to that description, must have done so still more, before the upper part of the building, with the arches, was destroyed.

The words of Sallust are,

*Est in carcere locus, quod Tullianum appellatur, ubi paululum ascenderis ad lævam, circiter duodecim pedes bumi depressus. Eum muniunt undique parietes, atque insuper camera lapideis fornicibus vincita, sed incultu, tenebris, odore fœda, atque terribilis ejus facies\*.*

BUT this is not the only strange place, within the inclosure of this formidable castle: for, fronting the foot of the stairs, at a little distance, at (i), is the square mouth of another well, of a most extraordinary kind; having been either a very horrid dungeon, or the inward mouth of some very singular subterraneous sally-port. It is very deep; but quite dry; the sides are neatly lined with stone; and on that which is nearest to the foot of the stairs, on looking down, appears at a great depth, a very high arch, leading to some vault, or passage, as represented Fig. XLVIII. where it leads to, (or for what purpose it actually served) may be well worth examining; but I had no opportunity of doing so.

AT (k), is a very narrow, wretched Chamber; formed in the thickness of the wall; which has two very small narrow windows next the court. Here tradition says Richard II. was

\* Sallustii Bellum Catilinarium, ed. Delph. p. 50.

confined, and murdered. And, indeed, the damp, and chilliness of the place, agrees well enough with what is said of his sufferings, by some authors; who affirm that he was starved to death, pinched with want and cold. The situation also of the little windows, might make it very easy to annoy him with the stench of carrion, which circumstance I remember to have somewhere read was added to his other torments: but the smallness of the room hardly agrees with what is related of the manner of his death, by a blow, with a battle-ax, from Sir Piers Exton; although his being so murdered was a story generally received and believed\*.

It has been accurately enough observed†, that the account of his being starved to death, is more consistent with what has been related, upon most unquestionable authority, of his body having been exposed in public; for we do not find that any external marks of violence were perceived or visible upon that occasion.

It was shewn openly (as Holinshed assures us‡), with the face uncovered, that all might know the person, in all the towns and places between Pomfret and London, where those that had the conveyance of it did stay all night.

MOREOVER it was exposed in Cheapside, as Froissart assures us; whose account is so curious that I cannot but insert it. “How he died, and by what means, (says Froissart §) I could not tell, when I wrote this chronicle. But this king Richard dead, was laid in a litter, and set in a *chaire* covered “with *baudkin*, and four horses all black in the *chaire*; and “two men in black leading the *chaire* ||; and four knights all “in black following. Then the chair departed from the tower “ of

\* Stow, fol. 325.

† Hume's History, vol. II. p. 274.

‡ Holinshed, vol. III. fol. 517.

§ Froissart, Pt. 2. Ch. 249.

|| There is a curious representation of this chariot, in the fine illuminated *Froissart*, in the British Museum; from whence it appears, that the carriage was drawn by the two horses placed one before another, just as the five horses were after-



“ of London, and was brought along, through London, fair  
 “ and softly, till they came into Cheapside, whereas the chief as-  
 “ sembly of London was ; and there the *chaire* rested the space  
 “ of two hours. Thither came in and out more than twenty  
 “ thousand persons, men and women, to see him, whereas he lay,  
 “ his head on a black cushion, and *his visage open*; some had on him  
 “ pity, and some none, but said he had long ago deserved death.”

SURELY, had there been any such wound, as the supposed blow from Sir Piers Exton must have occasioned, it could not but have been discerned and taken notice of on such an exposure. We may therefore, I think, fairly conclude the whole relation concerning that blow to be fabulous; notwithstanding its being adopted by so many historians, and by Shakespear. And I must add, that when, by accident, I had an opportunity some years ago, (with my late friend Sir Joseph Ayloffe, and some other gentlemen), of examining *the skull* itself, in the sepulchre at Westminster Abby, there did not appear any such marks of a blow, or wound, upon it, as could at all warrant the commonly received history of this wretched king's unhappy end. A small cleft, that was visible on one side, appeared, on close inspection, to be merely the afterwards placed in the funeral car of Henry the Seventh, as described by Hall (v. III. p. 800) and represented in a drawing in the Herald's office. In the same most valuable and beautiful manuscript of Froissart, is also a wonderful fine drawing of the seizing and apprehending of Thomas de Wodeflore first duke of Gloucester, at Stratford; when Richard the Second, going suddenly to the duke's seat at Pleshy in Essex, had caused the latter to accompany him on his way to London. The pourtrait of the king bears a remarkable resemblance to that which was formerly put up in the choir of Westminster Abbey; only with this additional circumstance, that a certain degree of unfeeling *hauteur*, manifested by him on that occasion, is characterized in a most wonderful manner.

In the same valuable manuscript also, is a curious representation of the form of cannon, constructed with rings and iron bars; and of the manner in which they were originally mounted at sieges, on their first introduction into this country, in the time of Edward the third; a sketch of one of which I have added, in a small *vignette*, at the end of these observations.

opening of a *future*, from length of time, and decay : and was, besides, in such a part of the head, that it must have been visible, when the visage was exposed, had it been the consequence of a wound given by a battle-ax ; it being at the top of what the Anatomists call the *os temporis*.\*

AT (1), are remains of a wall, twelve feet ten inches thick ; and the rest of the castle was of proportionable strength. It's ancient appearance, with it's many towers, is curiously represented (though not in good perspective, nor exact proportion), in a plate published by the Society of Antiquaries : but as most, if not every one of these towers, were undoubtedly subsequent additions to that of the Keep, and are moreover now all destroyed, I omit any further mention of them.

NEWARK castle ; the second I shall mention ; Camden says † (using the words of a more ancient historian), " was built by " Alexander, that munificent bishop of Lincoln, who being of " a very liberal and gentile temper, built this, and another castle, " at vast expence : and because buildings of this nature seemed " less agreeable to the character of a bishop, to extinguish the " envy of them, and to expiate, as it were for that offence, " he built an equal number of monasteries : and filled them " with religious societies." Yet king Stephen soon made both him, and his uncle the bishop of Salisbury, suffer greatly for this their liberality, and shew of splendour. The account given by Holinshed of this matter, is so odd, and contains such characteristick marks of the times, that I trust I shall obtain pardon for transcribing it.

\* A copper gilded crown, that had been placed on the head, remained still in the sepulchre ; so also did another skull, that of his Queen ; but there were no marks on the latter, to authorize any such story as that of Sir Piers Exton, even supposing a mistake to have been made with regard to these two poor remains, as to the ascertaining which was which.

† Gibson's Camden, p. 484.

“ STEPHEN (says Holinshed \*) began to repent himself, al-  
 “ though too late, for that he had granted licence to so many  
 “ of his subjects to build castles within their own grounds, and  
 “ amongst others he vehemently suspected Roger bishop of Sa-  
 “ lisbury (who had done very much for him), and Alexander  
 “ bishop of Lincoln, *nephew* to the said bishop of Salisbury, or  
 “ (as some thought) more near to him in kindred. For the  
 “ said Roger had builded divers castles: and the said Alexander  
 “ likewise, following his uncle’s example, bestowed his money  
 “ that way very freely, having builded one castell at *Newmarke*,  
 “ and another at *Sleesford*. The king therefore, having committed  
 “ both these bishops to prison, he threatened to keep them with-  
 “ out either meat or drink, if they would not cause these castles to  
 “ be delivered into his hands; whereby he obtained them: and  
 “ moreover found, in the bishop of Salisburies coffers, forty  
 “ thousand marks, which he took to his own use, by way of  
 “ confiscation. This ingratitude of the king so wounded the  
 “ bishop’s heart, that, taking thought for the loss of his houses  
 “ and money, he pined away, and died within a little while  
 “ after.

“ THIS Roger bishop of Salisbury, was in the days of Wil-  
 “ liam Rufus a poor priest, serving once in a village, near the  
 “ city of *Caen* in Normandy. Now it chanced, that the lord  
 “ Henry, the king’s brother, came thither on a time, and  
 “ called for a priest to say mass before him; whereupon this  
 “ Roger coming to the altar, was by and by ready, and quick  
 “ at it; and therewithall had so speedily made an end thereof,  
 “ that the men of war then attendant on the said lord Henry  
 “ affirmed, that this priest, above all other, was a chaplain  
 “ meet to say mass before *men of warr*; because he had made  
 “ an end when many thought he had but newly begun. Here-  
 “ upon the king’s brother commanded the priest to follow him;

\* Holinshed, vol. III. fol. 50.

“ infomuch,

" infomuch, that, when opportunity served, for his diligent  
 " service, and ready dispatch of matters, when Henry had at-  
 " tained the crown, he was by him advanced to great promo-  
 " tions: as first to be chancellour of England; after bishop  
 " of Salisbury; growing still into such estimation, that he  
 " might do more with the king than any other of the council."

IN this castle of Newark king John ended his days: and it is no less noted for another remarkable event; the siege it sustained during the time of the civil wars.

LET us now see the nature of its original construction; and of *some* of the additions made to it: for here, as in many other fortresses, the first erected and most important parts of the pile; were too strong to be easily demolished, by any common efforts; whilst most of those of later date are utterly gone.

FIG. XLIX. represents a plan of what remains; being part only of the inclosure of a large area; which was an oblong square; situated on an high bank, by the side of the river Trent, which runs at the foot of these ruins. The entrance was on the side that is now demolished. And at (a b c d e f), on the S E side, stands the original Keep, undoubtedly the ancient place of residence of the lords of this castle.

It's construction is very odd, and curious; and I shall give three distinct plans, of the three several stories; in order to render the whole more intelligible.

FIG. L. is the ground floor, where we find *two* rooms.

THE inward one (A); is 15½ feet by 19; but without either loop or window.

AND the outward one (B), is also without loop, or air hole, and 12 feet 9 inches only, by 10 feet; which proves that the walls here must be of much greater thickness than those of the inner room, the surface of the walls of the tower, on the outside, being all level, and quite even; as represented in the plan.

THE partition wall (c d) is six feet thick: the arch in the middle is about 9 or 10 feet in diameter; having been closed up



up all but a small narrow door: and the outward wall (a b) is much thicker; where was another great arch, compleatly of the same dimensions, closed as appears from the very first, and rendered solid the whole thickness of the wall; which therefore could certainly answer no other end than that of mere deception.

AND what is still more extraordinary; there was in the strong wall, by the side of this arch, at (i), just such another arch; in like manner closed up; which could be designed, only, upon the same plan, for deception: one of the persons who was employed to take it down, within a few years, assured me, that so far from there ever having been any entrance in that place, there was such a most prodigious thickness of solid wall against it, and so strongly compacted, that they had the utmost difficulty to remove the mass; the expence and labour of doing which was very great.

WE have here, therefore, as well as at Dover and at Rochester, the strongest proof of the reality of mock arches having been constructed for the purpose of *deception*: since such as these could not possibly answer any end by way of support, or contribute in the least degree either to the strength or ornament of the building; but must ever have appeared, externally, rather as weak parts. Nor was there any danger least a frequent change of garrison should (as some may be ready to suppose) betray the secret; for it is well known, to those versed in the ancient part of the history of our country, that there was no great change of garrison in old times; the feudal tenants, or persons employed and hired by them, or with their money, being generally the stated defendants of the castle, let the government of it have been committed to whom it might.

AT (g), in the middle of the outward room, was a well for water; still open.

AND at (k), is most a remarkable small recess, with an arch on the right hand, next (d), leading down to what seems to have been a dismal close dungeon.

AT (e f), was the arched entrance to these two vaults; but it is remarkable that they had neither windows, nor loops, nor any kind of communication with the rooms above; so that, if the mock arch, at (a b), had been at any time broken through, there would still have been no further admission.

AT (h), indeed, opening to the inner court, was a staircase; but it had no communication with these rooms, nor indeed with any rooms in the tower; it went merely straight up to the battlements, and top of the building.

FIG. LI. is the plan of the next apartment above; which was the first principal one.

AND here the entrance was by a covered way, from the adjoining wall, (n n), similar to that of an old Norman castle: the passage being a winding one (m m m) by which admission is gained into a small vestibule (v); wherein still are only two narrow lights like loop-holes (r r); but from hence, by an arched door way, at (o), is a passage to the guard room, (G), which has two fine arched windows; at (p), and (q).

AT (l) is the grand staircase; beginning at this floor, and leading to the state apartments above. And at (h) is the staircase before mentioned, from the open court of the castle to the top of the tower; having no communication with any apartments on this floor, or any where within the castle; and being most manifestly designed (like one of those that formerly was visible at Tunbridge) merely for the use of the soldiers who defended the works.

FIG. LII. is a plan of the state apartments.

AT (s) is the top of the grand staircase.

AT (tt) are two windows in the second vestibule above.

AT (v), is the door of the state apartment; in which was a fine window, at (w). It has been much injured, and ruined; but how magnificent it was, may be conceived, by the remains  
of

of those in the lower apartment ; one whereof, viz. that at (p), is represented Fig. LIII.

AT (x) again is the outer staircase ; still having no communication with the inside ; but going quite to the top of the tower.

LET us now return to the general plan Fig. XLIX, and see what were the other parts of the building ; and the additions.

AT (2) is another smaller tower, with very thick walls, and loops : and probably there were originally three others, at the other corners, corresponding with it.

AT (y) is a sort of half tower ; opposite to the original great gate of entrance ; and hanging over the river.

AT (X) are the remains of a great hall, marked by the dotted lines ; built manifestly in later times, as is evident from the manner in which the roof appears to have been inserted into the walls of the castle ; both on the side, and at the end : in which hall was a great bow-window hanging over the river, and of still later construction ; as it could not have been placed there till all the ancient modes of defence were considered as obsolete.

UNDER this hall, is a most curious arched vault ; supported by a row of pillars in the middle, and having loops, and embrasures toward the river, in which were planted cannon, in the time of Charles the first ; and at the end of this vault, are remains of the entrance of a subterraneous passage, that is said to have gone a great way under ground : there are also remains of a stair-case from this vault, up to the hall, at (y).

EXCLUSIVE, however, of this hall, and vault ; what remains of the building, appears to continue most evidently, precisely as it was in the time of king Stephen ; and exhibits a curious specimen of the odd mixture of old Norman architecture, and of some of Gundulph's improvements.

THE last castle of the irregular kind which I shall describe, is that of Knaresborough, in Yorkshire.

CAMDEN says it was built by Serlo de Burgh, uncle to Eustace Vesfy. And in this castle, it is well known, the four knights, who slew Thomas Becket, defended themselves, and remained closely shut up, an whole year.

THE construction of the arches, however, and the style of the whole building, shews that the present Keep could not be built earlier than about the time of Henry the Third.

THE enclosure of this castle was of considerable extent. Its entrance was by means of a draw-bridge, from a low deep valley : over which, on the very brow of an high precipice, the two round towers, formerly defending the gate, still hang in a most surprising bold manner.

THE Keep is very curious, and extraordinary, in its whole structure and design.

THE elevation of its outside towards the South \*, is represented Fig. LIV.

THE wall, even in the weakest part, is about *ten* feet thick. The width between the towers, at the corners is 48 feet 3 inches. And the little corner tower, at (z), is entirely solid : yet might easily deceive an enemy, by an appearance of weakness. Especially as the other tower, at (y), has obvious marks, that would at first sight lead any one to think both of them incautiously constructed ; having not only a loop, but also a window : even this appearance, however, is again deceitful ; for this very turret (y), as well as the former, is all one compact mass of stone, except only a narrow excavation leading to the above mentioned window, and a very small part of an adjacent vault, leading to the loop ; all which will be best understood by the subjoined plan.

AT (a) is the grand portal ; highly enriched, and of a very singular form ; having, in the upper part of the arch, the ap-

\* It is rather remarkable, and ought not to be passed by quite unnoticed, how cautiously and regularly the entrances of many of the ancient keeps were turned towards the south.



pearance of the tracery of a window : a circumstance that may easily mislead an unwary observer. Yet, that it really was the great gate of entrance, and not a window, appears from its dimensions being so much greater than those of any of the windows ; from its bottom being exactly level with the floor of the apartments adjoining ; and from the remains of the foundation of steps, plainly leading up to it ; which may clearly be seen, a (f), just beneath.

NEVERTHELESS I must confess, that even all these circumstances put together did not so entirely satisfy me, but that some doubts remained in my mind, whether this great arch might not have been converted into a window, in latter ages ; till I at length met with the door-way of the very ancient church at Ancaster, in Lincolnshire ; constructed nearly in the same manner, and probably about the same age : and then, recollecting that there was also something of the same appearance, in what is called the *golden gate at Jerusalem*, constructed most probably by the Croizes, I became convinced that this was certainly a mode, sometimes used, for the ornamenting of doors, and arched entrances as well as of windows. And endeavouring to investigate this matter still further, I soon found that the richly ornamented door-way of the chapter-house at Southwell ; and also that of the chapter-house at York ; and that of the ancient chapter house, in the cloysters at Westminster ; and still more particularly a curious old door-way, on the right hand, as you enter those cloysters from the dean's yard ; all constructed about the same age ; might with great propriety be mentioned as instances to illustrate this fact ; although it be true, that in all these latter, except the last, there are not only the ornaments over head, but also a pillar, in the mid-way.

FIG. LV. is an exact representation of the stone arched door-way, of the church at Ancaster ; which, though of ruder work-

manship, is still more odd, and more unlike a door-way, than even the portal at Knareborough. It stands on the ground, and has a descent of a step or two; and the points over head are of great thickness and strength, being evidently formed of such vast substance to prevent their being easily broken.

FIG. LVI. is a representation of the golden gate at Jerusalem, taken from Sandys's view of it; to the exactness and fidelity of whose drawings, both Maundrell, and subsequent travellers have borne the strongest testimony.

FIG.  $\frac{\text{LVI}}{1}$  is a representation of the door-way of the ancient chapter-house, in the cloysters of the church at Westminster.

AND FIG.  $\frac{\text{LVI}}{2}$  is a drawing of the door-way, on the right-hand, as you enter the cloysters, which formerly led into the ancient refectory.

We may, therefore, now, from all these instances, certainly conclude the great arch, just described, at Knareborough, to have been (what every other circumstance clearly indicates it to have been) the great portal, at the head of the ancient stairs.

AT (b), F. LIV. is another smaller arched entrance: which seems to have been just under the draw-bridge, like that at Rochester, and leads into the ground rooms.

AND at (d), is still another arch, originally concealed, in all probability, beneath the steps and platform of entrance, and leading to the vaults below.

AT (c), is a little door-way, leading to a small vaulted room, where the records of the *forest* have been kept for time immemorial; and which has no sort of communication whatever, with the rest of the inside of the castle. A singularity peculiar to this building.

AND at (e), is one of the great windows of the state apartments.

FIG. LVII. is the plan of the ground floor.

AND

AND here, at (a), is the same entrance which is marked (b \*) in the elevation, leading to the vaulted rooms; the first and longest of which is supported by two great pillars (xx); the one an hexagon, the other square. This was manifestly designed to hold stores; and accordingly in a recess, at (f), is a square well, within the thickness of the wall, for the drawing up beams, and other parts of military machines.

AT (b), is the stair-case, communicating with the upper apartments.

AT (c), is a second smaller arched vault, having no light or air, except what came through the doors, and through a small inner window, at (d), lighted merely from the corner room at (e).

FOR at (e), is a small cell; having a loop open to the outside of the castle, at the corner, over the precipice above the river; and so well fenced, by a transverse wall, that no weapon, or fire-brand thrown in there, could possibly ever come within the store-room.

AT (g), is the remarkable little vault, for the keeping the records of the *forest*; which has no communication with the inside of the building.

AND at (h), is another little vault, or dungeon, no less singular, to which belongs the loop that appears in the tower, at (y). This vault, like the record-room, neither has, nor ever had, any communication with the inside of the keep. It now serves for a prison.

(lll), is part of the great wall of the court of the castle.

AT (i i), is a steep precipice of rock.

AND at (k k), is the river *Nid*.

\* There is indeed also another modern forced entrance; but I avoid taking any notice of it, to prevent confusion in the plan.

It is very probable, that somewhere in the lower vaults of the keep was a well for water; but to them I could not obtain access, they being used as wine-vaults, and carefully locked up; and it not being in my power, whilst I staid in this place, to obtain the key.

FROM some arches remaining, on the inside of the walls of the Keep, it appears plainly, that the room, on the first and principal floor, where the great arched portal is, had an exceeding fine arched roof of stone-work; and we may easily conceive, that the state apartments above were not less magnificent. In these probably it was, that Richard II. was first confined, and treated with marks of honor and respect, before his removal to the wretched dungeon at Pontefract, where he ended his days in misery.

SUCH was the castle of Knareborough; which Leland truly says\*, "standeth magnificently and strongly, on a rock, having "a deep ditch hewn out of the rock, where it was not defended with the river Nid; and where, in his time, he numbered eleven or twelve towers, *one being very fair*:" which was doubtless that I have been just describing.

WITH this then I shall conclude the description of the *irregular* kind of castles, that were builded, in the interval between the Conquest and the end of the Reign of Henry III.

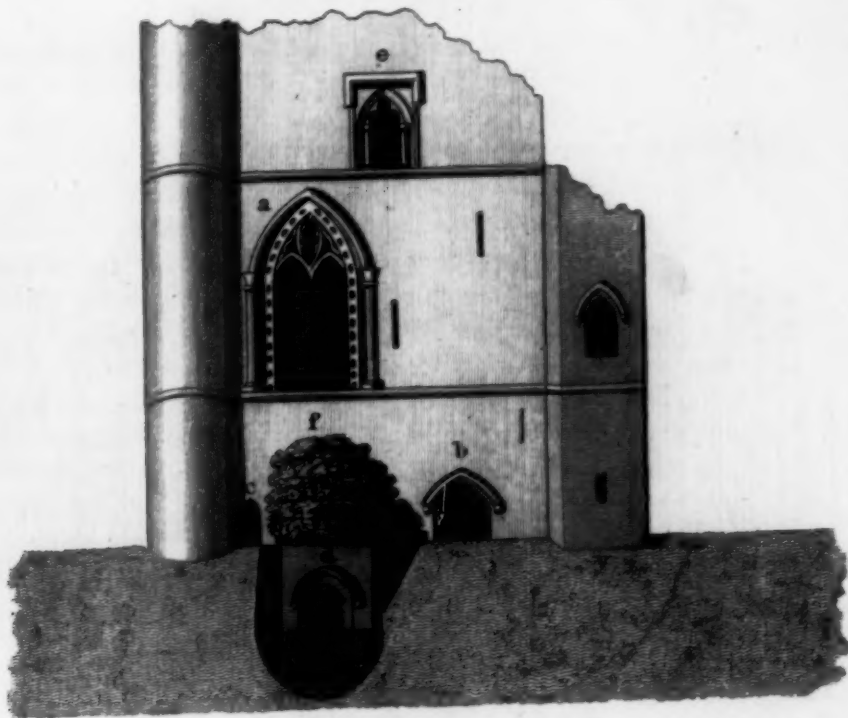
To these succeeded the magnificent piles of Edward I. more convenient, more stately, and containing not only many towers, but great halls, and sometimes even religious houses. Their general plan is so well understood, that they need no particular description here: a minute account of them, therefore, would only swell the bulk of this paper unnecessarily, which is perhaps already too long. No one can be ignorant of their grandeur, whilst the castles of Conway, and Caernarvon, in Wales, remain.

I HAVE only therefore to observe, that many of the more ancient castles had subsequent additions made to them, in imita-

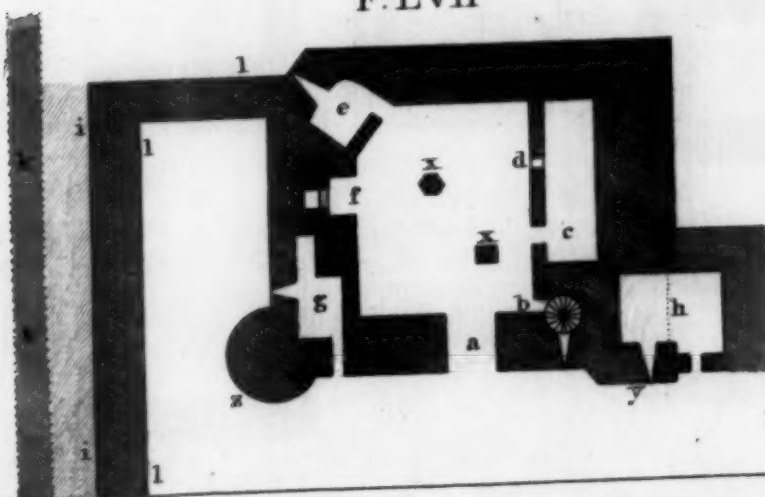
\* Leland's Itinerary, fol. 102.



F. LIV



F. LVII



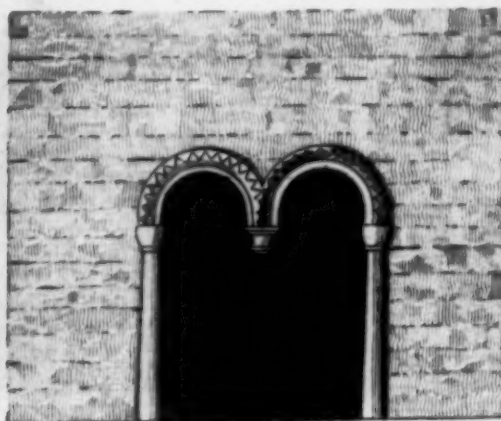
*Knarborough Castle in Yorkshire.*



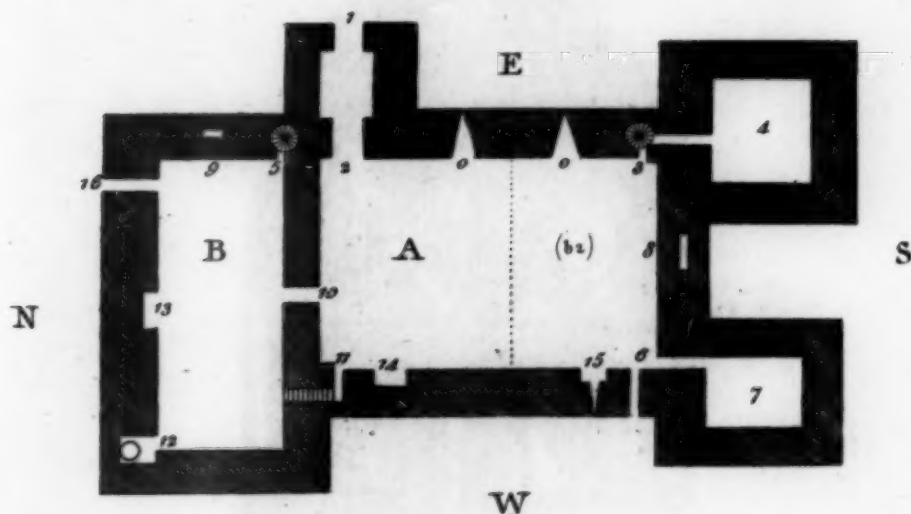
F. LV



F. LVI



F. LVIII



*Gothic Door Ways; and Plan of Harewood Castle, in Yorkshire.*





LVI  
3



LVI  
2



*Door Ways, in the Cloysters, at Westminster.*



---

THE END OF THE WORLD

tion of this noble style; the remains of which may now mislead an incautious observer: and that many fortresses, which in their more enlarged and improved parts resemble the castles of Edward I. and even of later ages, have yet *old* Keeps, of the first and most ancient times: of which there is a most remarkable and exceeding curious instance, at Arundel castle in Suffex, belonging to his Grace the Duke of Norfolk; and another also of somewhat the same kind, at Corfe castle, in the Isle of Purbeck, in Dorsetshire.

AFTER the age of Edward I. (who both improved our laws, and introduced much elegance, and many degrees of civilization into our modes of life) we find another kind of castles soon introduced, approaching nearer to the idea of modern palaces.

THE first of these was that at Windsor, built by Edward III. who employed that ingenious and excellent Prelate *William of Wykeham*, as his architect\*, and made him the overseer of

\* Stow's Annals, p. 264. The account given of this matter, by the Bishop of London, is so exceedingly curious, and contains such an illustration of the manners of the times, that I cannot forbear to insert the heads of it. The 30th of October, 1356, Wykeham was made surveyor of the King's works, at the castle, and in the park of Windsor. By this patent he had powers given him to press all sorts of artificers, and to provide stone, timber, and all other materials, and carriages. He had *one shilling* a day while he staid at Windsor, *two shillings* when he went elsewhere on his employment; and three shillings a week for his clerk. It was by the advice and persuasion of Wykeham, that the King was induced to *pull down* great part of the castle of Windsor, and to rebuild it in the magnificent manner in which, upon the whole, it now appears. In 1359 Wykeham was appointed chief warden of Windsor, and other castles named in the appointment: and in 1360, workmen were impressed out of several counties, by writs directed to the sheriffs, for carrying on the work at Windsor; who were to take security of the said workmen, that they should not leave Windsor without licence from Wykeham. This great, ingenious, and I may add, most truly (considering the disadvantages of the times he lived in) this good man, was not made Bishop of Winchester till 1366.—Lowth's Life of William of Wykeham, p. 19. 21. 24. 39.

his works. Here was extant, therefore, in consequence of these works (even prior to the additions and improvements made by Queen Elizabeth), a truly *magnificent palace*; but yet strongly walled, embattled, and defended as a strong castle; and having a round keep adjoining, built also by Edward III.

Stow informs us\*, "that Edward III. called together a great many artificers, to the castle of Windsor, in the year 1344, and began to build an house, which was called the *Round Table*; the floor whereof, from the centre, or middle point, unto the compasse, was an hundred feet, and the circumference thereof six hundred;" (and in another place, says,) "that in the year 1358, he began the new building of the castle at Windsor, where he was born; but that the *Keep*, called the *Round Table*, was begun in the 18th year of his reign." We must not, however, conclude from hence, that this round Keep was devised either by Edward III. or Wykeham; or that it was a species of building in much use at that time: for, on the contrary, it seems merely to have been a repair; or to have been re-erected, on a larger scale, in imitation of the original Norman castle, that was built on the same spot long before; and most probably in the early part of the reign of William the Conqueror; since it is certain†, that he, being delighted with the situation, gave lands in Essex in exchange for this spot; and built there a place of residence, which Henry I. made additions to, and fortified more strongly. And it is remarkable, that the Keep was rebuilt by Edward III. before Wykeham was employed, and before he had any opportunity of communicating his magnificent and elegant ideas.

THIS convenient and enlarged style of building, which began to be introduced by Edward the First, and was finally improved

\* Stow's Annals, p. 239.

† Gibson's Camden, p. 145.



by Edward III. we may easily imagine would soon be imitated by the nobles of the Realm, on a lesser scale. Accordingly, amongst others, we find *two* very remarkable structures, one at Harewood, and the other at Spofford, in Yorkshire; the nature of which, without this consideration, is hardly to be understood; but which do both of them greatly illustrate what is here said. The odd mixture of convenience and magnificence, with cautious designs for protection and defence, and with the inconveniences of the former confined plan of a close fortress, is very striking.

AT Harewood was a castle in very ancient times; Camden giving us an account of one situated there, even prior to the reign of King John\*. He by no means, however, fixes upon any date, as to the time of the erection of the building subsisting in his days, and which now remains.

SOME part indeed of the walls of the main body thereof, both from what he says, and from certain particularities in its construction, may be deemed of considerable antiquity; though now greatly altered: but the whole of the edifice, in its present form, may fairly be concluded to have been chiefly built about the time of Edward I. and to have been completed in the reign of Edward III. if any regard is to be paid to the style of architecture; and if any inferences may be drawn from the very peculiar ornaments, in different parts of this castle.

FIG. LVIII. is a plan of the whole, as it now remains†.

AT (1) is the first, and outward grand portal: not raised up high like those of Gundulph; but standing *here* upon the ground, and leading into a sort of porch, formed by an high adjacent small tower. This portal is lofty enough for a man to enter on horse-back; and just within the gate of it, is the groove for a vast portcullis.

\* Camden, p. 714.

† See Pl. XLIII. p. 326.

AT (2), is the second great gate; and the second inner portal; of the same dimensions and construction, as the former.

(3) is the principal stair-case, which does not reach down to the ground, but only goes as low as the first floor; and from thence to the great rooms above; but communicates also the whole way, with the four small rooms, that were in the little tower (4), one above another. The places for the floors of these rooms are still very plainly to be discerned in the walls; and in every one of them was a fire-place, and a window.

AT (5), is the lesser stair-case; which both goes down to the ground, and even to the vaults beneath, and also up to the top of the castle; but though so near to it, does not communicate at all with the tower of entrance in the lower part.

BETWEEN (2 and 3), within the substance of the wall, are galleries (like those in Gundulph's towers) communicating with the apartments above, and the stair-case; and with the places above, for working the portcullis, over the tower of entrance.

AT (6), are loop-holes, defended in the usual manner; and in the apartments above are large open windows.

(6) is the present entrance; but if there ever was one in this place originally, it could only be a small fally port.

(7) is another tower, smaller than the former at (4); but having, in like manner, four different apartments, one above another; each of which had a fire-place, and good light; and communicated with the great rooms above and below, by narrow passages.

AT (8), is a very curious and large well, for drawing up timber and warlike machines.

AND at (9), is another, of the same construction.

BOTH of these have great arches at bottom, to make room for turning the beams: but the arch at (8) is larger, and of more noble construction than that at (9).

(13) is a large fire-hearth; the chimney of which is of a different form from that of these wells; as are also the chimneys in the walls above; where they may most plainly be distinguished, in almost all the apartments.

(10) is a large pointed arched door-way, forming a communication between the great rooms (A and B).

AND (11) is a narrow arched passage, having a steep flight of steps, descending in a straight line to the great vault, under the room (B).

IN this vault is the arch under the great well (9); and here, also, at (12), in a little recess, was the well for water; the pipe of which was cleared out, about seven years\* ago, to the depth of eighteen feet; but it is now filled up again.

HERE also, at (16), was a sally-port.

IN the great room (A) is a recess, at (14); where seem to be remains of steps leading down to a dungeon.

AND at (15) is an appearance, that greatly surprizes one in such a building; being (as far as the eye can judge) a most remarkable Tomb, of great elegance and magnificence; yet so constructed, that it also forms a recess, that might serve for the station of a cross-bow man, at the back of which is a narrow loop.

IT is represented, Fig. LIX.; and whether it was, what I have ventured to call it, *a tomb* of some governor, who desired to be here interred; or whether it was designed as a sort of altar (the only purpose it could serve for, if it was not a tomb) it seems to indicate, that the great room (A) was divided originally into two apartments, by a partition wall; and that one of these apartments (b 2), at some time or other, served for a chapel.

THE style of this monument agrees with the remains of tombs we so frequently meet with in ancient cathedrals, of the age from the time of Edward I. to that of Richard II.

\* I had this information from a man who was employed in clearing it out.

ONE or two circumstances more are very remarkable, with regard to this castle. The *first*, that in the apartment above, just over the second great portal, at (2), is a very large magnificent door-way, looking like an ancient great entrance, of which I have given a representation, (Fig. L.X.), and which has three escutcheons of arms over it: two whereof do each contain a lion rampant, charged on the breast with a fleur de lis, and the third contains an orle. But what is very extraordinary, this great arch only leads out into the small room in the upper part of the tower of entrance, where, nevertheless, there could not possibly be any communication with the grand entrance below; and it seems unconnected with any other parts, except with that little room and with the galleries in the wall: and yet, from the escutcheons of arms both over it, and in that small room, it must probably have been designed for some important use, at the time it was constructed.

THE *other* remarkable circumstance is, that in the end walls of the great central room above, are manifest marks of an high-ridged roof having been let in, over the state apartments, but beneath the high parapet wall, and so as to leave room for a platform, externally, on each side upon the leads above, secured by the parapet, and fitted for the purpose of placing engines of war, or even cannon; which, after the time of Edward III. were often used, and not unfrequently placed on the tops of high buildings, in case of necessity.

THIS latter circumstance needs no explanation: and the former may be cleared up, and accounted for, by a little reflexion on a most curious *Survey* of this castle, made by Robert Glover Esq; Somerset Herald, in the year 1584; and recorded by Sir William Dugdale, in his curious Manuscript of Yorkshire Monuments, preserved in the Office of Arms. Both of these I have been favoured with a sight of: and they, together with some other facts mentioned in the records of that Office,



fice, will enable us to understand, how this great arch came to be made, and placed where it is; and will confirm all that has been said, relating both to the æra of the building, and that of the material alterations made in the structure of this castle.

SIR William Dugdale, in that Survey, calls the little apartment over the porch, *the chapel*: and describes, and delineates, the twelve shields of arms, which appear, cut in stone, in the freeze above, all round the room. Most of them are well known to our heralds: and appear, on examination, to be those of

1. Sutton.
2. Aldburgh.
3. Baliol.
4. Baliol, with a label for difference.
5. Aldburgh.
6. Thweng.
7. Bordesley, or Grauncester.
8. Aldburgh, impaling Sutton.
9. Constable.
10. Rofs.
11. Vipont.
12. ———.

They are all represented and properly numbered, plate XLVI.

HE further describes, and delineates also, the three shields of arms, which I have already described; and which are in like manner, cut in stone, over the great arch of entrance in question; and are represented (Fig. LX.) That in the midst, over the point of the arch, which contains the orle, is the arms of Baliol\*; and the other two shields, which contain each of them a Lion rampant, charged on the breast with a fleur de lis,

\* It may deserve consideration, whether this coat of Baliol may not have been so often repeated, in the ornaments of this building, in consequence of some former remarkable attachment of the Aldburghs to the interests of that illustrious house: but I know of no facts at present sufficient to elucidate this matter.

are

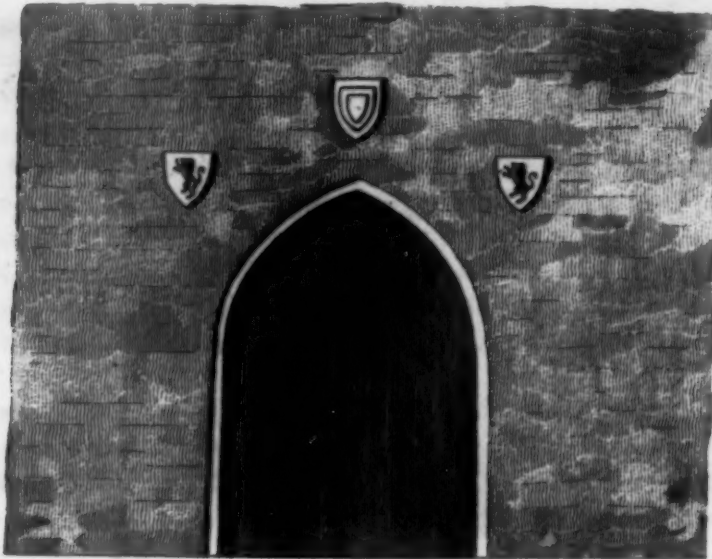
are the arms of that branch of Aldburgh which possessed Harewood castle; the fleur de lis having been given to them, to distinguish this from the Elder house.

Now it further appears, from the records of the Office, that this estate of Harewood was in the possession of William de Meschines, lord of Harewood, in right of Ceciley de Rumelli his wife, about the time of the conquest: from whom, by various descents, it came into the possession of Robert de Insula, or *De l'Isle*, in the time of Edward the First;—(the son of the famous Fulk de Brent, one of the favorites of king John.) It appears further, that this castle, after that, came into the possession of the Aldburgh family, by a deed of gift to Sir William de Aldburgh, from Robert de Insula, or *De l'Isle*, called Lord Lisle of Rugemont, in the 38th year of Edward the Third; on Sir William de Aldburghs marriage with Eliza, one of the daughters and coheiresses of that Lord. And, after that, it came into the family of the Redmans, by the marriage of the daughter and heiress of this very Sir William de Aldburgh with Sir Richard Redman, her second husband, in the time of Henry IV. \*; and in that family it continued, and was also inhabited by them as their principal mansion, till the time of queen Elizabeth.

It is clear, therefore, that it was in the possession of the Aldburghs, during the life *only of one lord*; who obtained the possession of it, in the time of Edward III. and yet it appears, that amongst the arms in stone, in what Sir William Dugdale calls the chapel (the little room above the porch), those of *Aldburgh* are repeated no less than three times over; and are seen also on the two most distinguished shields over the great arch of entrance

\* There is a very curious tomb of the Redmans, in the church at Harewood: In the same church also is a fine tomb of the famous Sir William Gascoigne, chief justice in the reigns of Henry the IVth and Vth, so greatly celebrated by Shakespear, for having dared to commit the latter to prison whilst Prince of Wales. Upon this tomb is a figure exceedingly well wrought in alabaster, and supposed to be a good likeness: his family was nearly related, by intermarriage, to that of

F. LX



F. LIX



*Great Door way & Tomb in Harewood Castle.*





to it; whilst at the same time it is no less remarkable, that of all the other shields of arms, not one belong to any families who were owners of this castle, *subsequent* to the time of the Aldburghs: a fact easily ascertained (even with regard to the shield of arms whose owner is unknown) by examining the bearings, and comparing them with the arms of those families who are well known to have been in the possession of that estate, from the time we speak of and downwards. This chapel and arch, therefore, could not well have been constructed either before or after the time of the one only lord of the Aldburgh family who possessed it.

ARMS of the families subsequent to his time there were, in other parts of the castle, at the time Glover made his survey; which he has carefully delineated; and which I have also represented in the lower part of plate the XLVI. for the sake of comparing them with the former: N° 13. was enamelled on metal, and put up in the great chamber, and contains the arms of *Rytber* with quarterings: viz. 1. *Rytber*. 2. *Totbeby*. 3. *Fortibus* Earl of Albemarle. 4. *Aldburgh*. 5. Lord *Lisse*, or de *Insula*. 6. *Fitzwilliam*. 7. *Bellerive*. 8. *Rytber*, N° 14. was painted (probably on glass) in the same chamber, and contains *Redman* quartering *Aldburgh*. N° 15. was it should seem painted on glass in the chapel, containing *Rytber* single. And N° 16. and 17. were in other parts of the castle\*. The former containing *Reaman* quartering *Aldburgh*, and impaling *Strickland* of Sizergh in Westmoreland; and the latter containing *Redman* impaling *Huddleston* of Millom castle in Cumberland. But it is very remarkable, that all these latter appear to have been mere paintings on wood, glass, or metal, and to have had the proper *blazonings*; whereas the ancient arms were in stone, placed round the freeze of the small apartment we are speaking of, and had no *blazonings* at all.

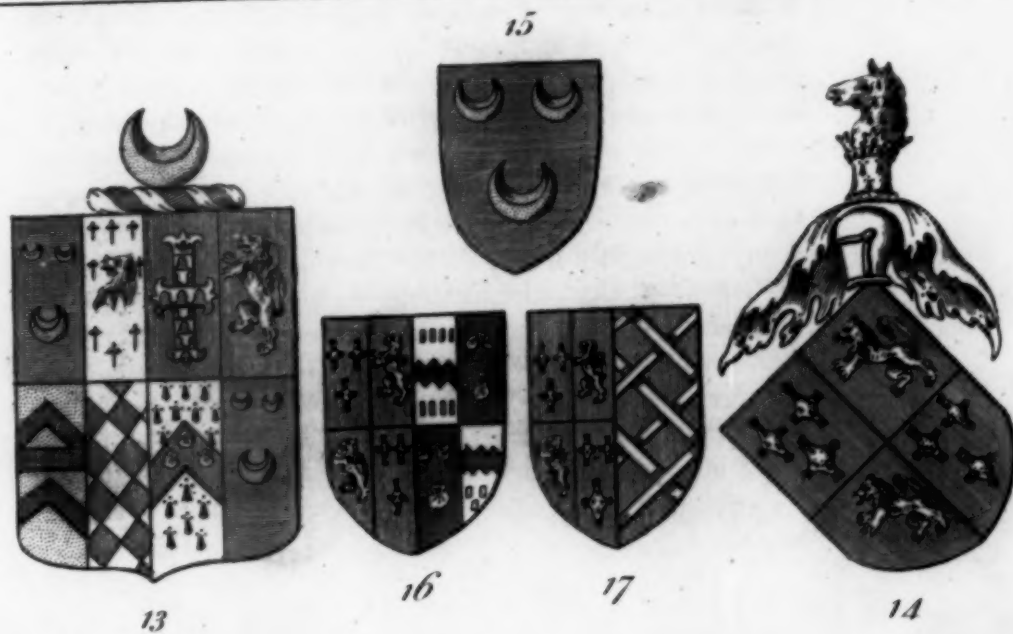
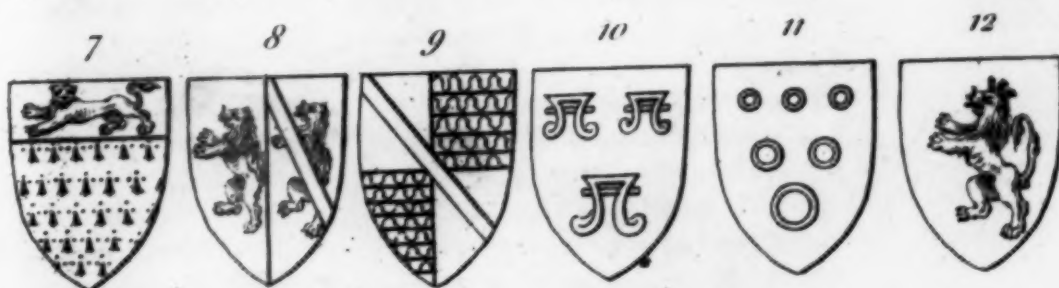
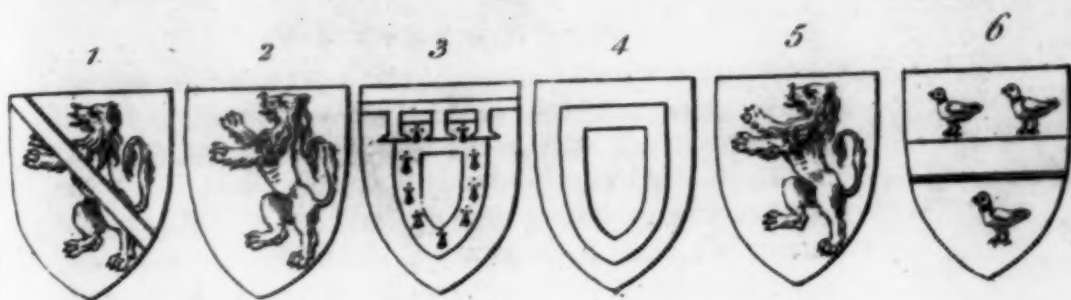
\* The three half moons were the arms of the *Rytbers*; and the three cushions the arms of the *Redmans*.

NOTHING then surely can be clearer, than that this little room, called the chapel, and the great arch in question leading to it, were constructed, and adorned by William de Aldburgh \*, in the time of Edward the Third, when this new chapel was probably first formed in this place over the portal, in lieu of the old one, in the other part of the castle, on the floor beneath, where the ancient tomb is placed; that original one, being in all likelihood thought, whilst placed in such a situation, to interfere too much with the accommodations wanted for other purposes. In short it most clearly appears, that this arch was designedly made of such magnitude, and with such magnificence, merely on account of its leading to an apartment, which, though small, was yet destined for sacred use.

AND whilst this conclusion accounts for the appearance of this arch, without having recourse to the idea of its ever having been any original entrance to the castle; and strongly confirms all that I have said, concerning the castle being compleated, in imitation of the style of building introduced by Edward the Third, there appears also, on the whole, from every other circumstance that can be collected, either from the remains of the building itself, or from the records preserved concerning the possession of it, the fullest reason to be convinced, that this noble pile was first built by *Robert de L'Isle*, in the time of Edward I.; and then improved, and perfected, by *Sir William de Aldburgh*, in the time of Edward the Third. Whose arms, I have further to observe, are moreover, together with those of Baliol, on the outside of the porch, having a motto placed under them, but so high, as not to be legible without the assistance of a long ladder, which I had not.

Perhaps the idea of there having been an ancient and original chapel, on the floor beneath, in the time of Edward the First, and a new one substituted in the room of it, over the porch, in

\* He had a summons to parliament in the 44th year of Edward III. and in several succeeding years of that king, and of Richard II. see Dugdale's Summons.



Arms in Harwood Castle.





the time of Edward the Third, may to some persons appear too hazardous; and therefore I am by no means eager to insist upon the truth of it; being led to form such a conclusion, only by the unquestionable and extraordinary appearance of a *tomb*; which, after all, may have been placed there, by special direction of some proprietor, or lord of this castle, who might desire to be interred in or near this spot, in consequence of some odd partiality and prejudice; without any regard either to the sacredness, or want of sanctity of the place.

*Spofford Castle*, in Yorkshire, is a still more extraordinary structure than *Harewood*. It was one of the first seats of the noble family of the Percies, Earls of Northumberland: and tradition says, that Henry de Percie procured a licence, in the second year of Edward II. to fortify his castle here. We may fairly expect, therefore, that these ruins, which have every mark of original antiquity, should bear strong traces of the improvements made about the time of Edward III, and in the next succeeding reigns: and the rather, as this habitation has been, for so many ages, entirely deserted by the noble family to which it belonged, and has been left just in the state it was.

HOWEVER, before I proceed to the description of this castle, I cannot but make a short digression, for the sake of relating what appears to me to be a curious circumstance, tending to the illustration of the history of this Country; at the same time that it shews the original power, splendour, and dignity of the Percie family, beyond that of almost any other Norman Barons in these parts.

IN the very ancient church of Spofford, is a most curious antique monument, having a cumbent figure, placed cross-legged, upon it, which has most commonly passed (as there is no inscription) for the tomb of a *Knight Templar* of the Percy family; because on a large shield, which covers the breast of the figure,

are most obviously the arms of the Percies, as represented Fig. LXI. only there is a small difference, of an escallop shell, inserted in the centre of each of the fusils. This tomb is represented Fig. LXII. But, notwithstanding the local tradition concerning it, on investigating this matter in the Office of Arms, (where this very monument is recorded, and a drawing thereof preserved,) it appears, that the common account given of it is a mistake; and that the monument actually belongs to one of the *Plumptions*; which family was a very considerable one, and on account of their being dependants upon, and holding lands of the Percies, as *mesne lords*, bore the Percy arms, with the difference abovementioned in token of their subordination \*. A cir-

\* On having occasion to mention these ancient coats of arms, and these peculiar circumstances relating to them, I cannot forbear observing, that although a common opinion has prevailed, concerning the first introduction of *armorial bearings*, that it was an invention adopted during the first crusade, to distinguish chieftains and their followers in battle; yet there is much reason to doubt the truth of this idea: for one can hardly conceive, why such distinctions should be thought of, or deemed more important in *that* war, rather than in the preceding wars during the greatness of the Roman Empire; when full as many different nations were often embattled on one plain: and, besides, there are two remarkable passages in Tacitus, which seem to me to imply, that such armorial bearings were in use amongst the Germans long before. They are these following, which I submit to the consideration of the judicious reader.—

*Scuta tantum lectissimis coloribus distinguunt.*—

*Scutum reliquisse, præcipuum flagitium: nec aut sacris adesse, aut concilium inire, ignominioso fas: multique superstities Bellorum, infamiam laqueo finierunt.*

TACITUS, De Moribus Germanorum, Sec. VI.

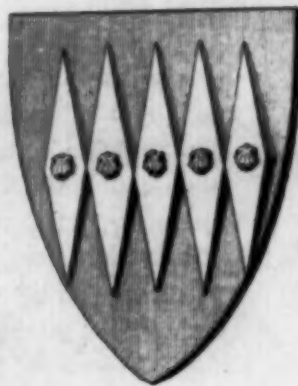
I must only beg leave to add, that as there are no more than seven colours, and so very few different shades formed by the composition of them, the shields of the numerous families of the Germans, could not well be distinguished by colours alone, without the addition of various forms and figures; which addition constitutes the very essence of *armorial bearings*, in the strictest sense of the words. Probably, therefore, our coats of arms, as well as our laws, and the foundation of our liberties, were brought from the forests of the North.

cumstance

F. LXIII



F. LXI



F. LXII



*Arms and Tomb . . . . . in Spofford Church*

*Before*





cumstance that may be still further accounted for, by considering, that such lands must, in the case of this family, have been holden by what Littleton calls *Homage Auncestral*: that is (to use his words), "where a tenant holdeth his land of his lord by homage; and the *same tenant*, and his ancestors, whose heir he is, have constantly holden the *same land* of the *same lord*, and of his ancestors invariably. It is called *Homage Auncestral*, by reason of the continuance there hath been by title of prescription, in the tenancy, in the blood of the tenant, and also in the seignior in the blood of the lord:" (which indeed formed a kind of relationship, that may well enough account for the bearing of the same arms). And it is remarkable, that the lord, in this case, was bound to acquit the tenant against all other lords paramount, of every service: and if the tenant aliened to another in fee, the *legal relationship* was dissolved thereby; inasmuch that the alienee was no longer tenant by homage auncestrel, but by homage like unto knights service\*.

THE short history of this family of the Plumpton is very remarkable. Eldred de Plumpton, appears from Domesday Book +, to

\* See Coke Littleton, fol. 100. b. 101 and 103, and 74. b.

+ Domesday Book, in Terra Willi de Percy. "In maner. de Plomton hñ Gamelbar 11. car. fre ad glā et 1. car. pot. ibi ēē. Nē Eldred (de Plompton) ten. de Willo. Ibi sunt viii vill. et x bord. cū 111 car. et 11 ac. pti. T. R. E. val. x sol. modo similiter."

It is worthy of observation, that the manor of Haselwood in this neighbourhood, which was also held of William de Percy, by the family of Vavasour, when Domesday-Book was made, has to this day continued regularly in the male line of that ancient house, except for a short time, in the reign of Henry III. when it was in pawn to Aaron a Jew at York, for the sum of 330l; who made a conveyance of this security to Queen Eleanor, in discharge of a debt due to her (or assigned by the crown), from whom John de Vavasour received it again, on payment of the money, by a very curious deed of conveyance, remarkable for its brevity.

to have been a dependant upon, and to have held lands of William de Percy, at the time when that great survey was taken, in the twentieth year of the reign of William the Conqueror; and in his family those lands continued, in a regular uninterrupted course of descent, in the male line, till within these forty years; when it at last ended, on the decease of Robert Plumpton, Esq; from whom the estate went to Anne his aunt, who sold it to the present possessor Mr. Lascelles.

AMIDST the various ancestors in the course of this long descent, one was particularly distinguished above the rest, Nigell de Plumpton, to whom William Estreville, lord of Knareborough, in addition to the land held of the Percies, granted the whole lordship of Plumpton, in the time of Henry II. This Nigell died in the fourteenth year of King John; and from the dress of the cumbent figure, the form of the arms, the legs being crossed, and every other circumstance in the appearance of this ancient tomb, it may fairly be concluded to have been his sepulchre.

BESIDES this tomb, there is one other fragment of antiquity also on the walls of this old church, relating to the Percies, that deserves, on account of its connection with the castle we are mentioning, to be taken notice of. On the outside of the South wall is a very singular large square shield, like that of a *knight banneret*, with a small shield over it; both of them carved in basso relievo in stone; and the former containing *those* arms of the Percies, displayed in a most remarkable manner, which they bore *before* their own proper coat, in consequence of intermarriages with the houses of Brabant and Lucy.

I am indebted for this anecdote to my curious, learned, and respectable friend John Charles Brooke, Esq; Somerset herald, to whom I desire here to make my acknowledgements, for his kind assistance in enabling me to search the records of the Office of Arms; and for the great information he has given me, with regard to the matters contained therein.

THE

THE history of these singular bearings is as follows: with regard to the first, *the lion rampant*; Agnes de Percy, who inherited the estate of the family in the reign of Henry II. was married to Josceline, a younger son of Godfrey the first Duke of Brabant; but, being an exceeding great heiress, would not consent to take him for her husband, unless he would either assume her name, or arms; upon which, by the advice of Queen Adeliza his sister, widow of King Henry I. he took her name of Percy, but retained his paternal arms, *or, a lion rampant, azure*: and the old bards of the Percy family composed these lines on the occasion.

Lord Percy's heir I was, whose noble name

By me survives unto his lasting fame;

Brabant's Duke's son me wedd, and for my sake

Retained his arms, and Percy's name did take.

AND, with regard to the second bearing, *the three fishes*; Henry (who was created first Earl of Northumberland, at the coronation of Richard the 1<sup>st</sup>) married, for his second wife, *Maud*, daughter of Thomas Lord Lucy of Cockermouth (sister and heiress of Anthony her brother); by whom he had no issue; but, notwithstanding, she on her decease gave all her lands to her husband, on condition that he and his heirs should for ever after quarter and bear her arms *the three lucies bauriant argent*, next to his own, and before the Percie arms.

BOTH these coats, with the original *one* of the Percies, *azure, five fusils in fess, Or*, are given properly quartered in the arms of the first Earl, by Brook, in his curious catalogue; and their being here, on this shield at Spofford, without it, seems to indicate, that as this ancient bass-relief was certainly put up after the latter event had taken place; so that it was put up *very soon* after, and as a sort of commemoration of so remarkable a circumstance attending the fortunes of that noble family; and this, seems

seems the rather probable, because shortly after this time the Spofford estate ceased to be the place of their residence.

BOTH the great shield and the small one, are represented Fig. LXIII.; and it is remarkable, that the quarterings are made without any divisions by lines.

HAVING explained this little circumstance relating to the history of this illustrious family, which helps to shew during what period they were resident on this spot; let us now proceed to the description of this curious pile; Spofford Castle, which the Percies were lords of, and in which they dwelt, even before Alnwick or Warkworth came into their possession; though it was finally embattled, compleated in its present style, and declared to be a castle, only about the time they obtained those other great inheritances.

IT was clearly one of the structures built about the time of Edward the Third, in imitation of the style of architecture then introduced: when the idea of the close, compact, well secured *Keep* was nearly laid aside; when that, even of *the castle*, began to be considered as of importance in *name*, rather than in reality; and when the idea of the convenient hospitable *palace* was adopted, and brought into use. And the appearance of the remains of the edifice proclaims all these circumstances, as effectually as the history of the *Æra* in which it was erected.

FIG. LXIV. is a plan of Spofford castle, in its present state.

(a), is the principal entrance; narrow, and small, and on the level of the ground, which is here a compleat bank of rock, ending in a low precipice within the castle, and affording opportunity for lower apartments at (A), and also under all the rooms.

(b), is an arched door-way; directly opposite to the principal entrance, and leading to the room over the dungeon: the door of the dungeon itself being in the vault immediately under this arch.

(c), is a large arched recess, on the right-hand, in the same room; having, in the floor of it, a sort of well, or trap, still left



open, and remaining entire, which was manifestly made for the purpose of letting prisoners down into the dungeon, without opening the door. The intended use of it cannot be mistaken: for this strange well, and excavation in the wall, could never have been designed either for a fire-place, or for drawing up beams; because there is a solid arch in the wall over head at the top, and not the least perforation for letting out smoke; and because there is no room for turning of beams, to be drawn up, at the bottom. It is very remarkable also, that this trap, which is of large dimensions, was not only inclosed on the three sides with the wall, but also by large slabs of stone, on the side next the dungeon, leaving only just room enough at bottom for the prisoners to creep into their dismal prison.

IN this wretched vault was also a flue, at (k), for the conveyance of air, as at Canterbury.

THERE was, besides the dungeon and room over it, a third room above, in this tower; the dimensions of which, as of the others, are as set down in the plan.

(d) is an entrance now forced through the wall; but there manifestly never was any here originally.

AT (e), adjoining to a large room (C), is the principal staircase.

AND at (i), a magnificent large window; the only one on the ground floor; yet such an one, that the castle never could be a place of strong defence, at any period, whilst it existed.

AT (f), is a great fire-hearth; the chimney of which is, in the usual manner, concealed in the wall; and near adjoining is a loop at (o).

CONSIDERING, therefore, the near adjoining situation of the dungeon, at one end; and the fine window, bespeaking stateliness, at the other; and the great length of this room, in proportion to the breadth; it is probable there was a partition wall at (l).

FROM

FROM this apartment is an arched passage, to the room at (B); whose dimensions are given in the plan.

AND here, at (m), is a square recess in the wall, like a very large cup-board, which, I confess, I do not know how to account for, and therefore I leave it as a matter of investigation for others. The proportions of this room, and its want of air and light, seem to indicate that it was only a vault for stores.

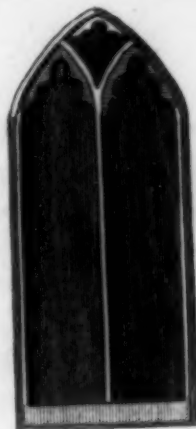
So also was the lower part of the great room (A), between the ridge of rock and (n p); it having only loop-holes. Yet here was, at (g), as far as I was able to conclude, a well for water: and near to it a sort of gallery in the wall. I am persuaded, however, there must originally have been another well somewhere, in one of the apartments (B or C).

ABOVE was a most magnificent hall; the walls of which are still entire. It was 75 feet 10 inches in length, and 36 feet 9 inches in breadth; and has great arched windows, like those in cathedral churches, of a magnitude and form that was not introduced at all in the walls of castles till after the time of Edward the First; nor allowed to be placed in any such manner as here, till the cautious modes of defence were laid aside, and beginning to become obsolete. There are also two great doors, at (h h): it could, therefore, certainly, never have been considered as any *defensible* part of the building. And it is remarkable, that it is so contrived, as to be quite detached from all the other apartments; having no communication therewith, except merely by a small arched door-way at (q); so that this defenceless part might, in case of necessity, be quite shut out, and cut off from the rest.

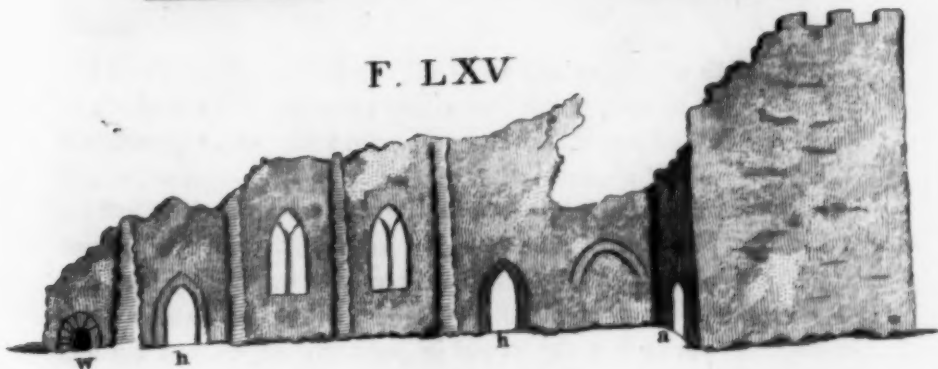
WHAT the other apartments in this building, in the stories above were, cannot now be accurately ascertained.

FIG. LXV. represents the remains of the East front, as it now appears; where (a) is the door of entrance: (h h) shew the

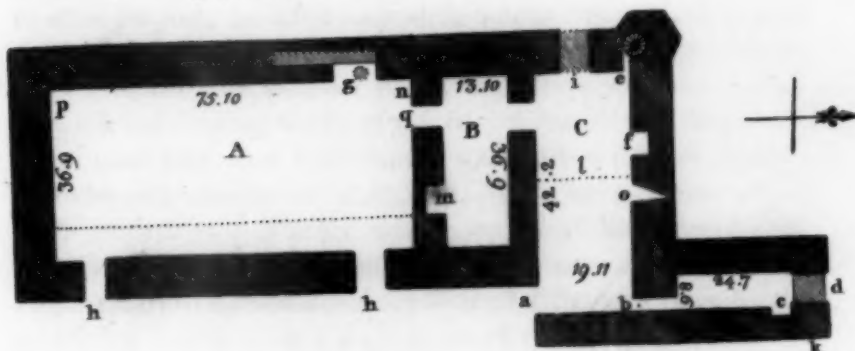
F. LXV  
2



F. LXV



F. LXIV



Spofford Castle in Yorkshire.





two great doors of the great hall; and (w) a low arched doorway, in a projecting part of the building, not represented in the plan, which led, through an exceeding thick wall, down to the vaults beneath; and under Fig.  $\frac{LXV.}{2}$  are sketches of two of the other windows, on the West side of the Hall, on a larger scale, for the sake of shewing more nearly the form of their construction.

SUCH was the strange mixed style of architecture, with which ended the ancient mode of Residence in castles, properly so called.

IT would far exceed the limits of this paper, to describe particularly the still more extensive and noble piles of this age. As *Kenelworth Castle*, the greater part of which was built by John of Gaunt, excepting the old edifice called *Cæsar's Tower* (probably erected in the time of Henry the First) and part of the walls; *Warwick Castle*, built by Thomas Beauchamp, Earl of Warwick, in the time of Richard the Second; and *Alnwick Castle*, in Northumberland, the most superb of all, built chiefly by Henry de Percie, and his immediate successor, in the reigns of Edward the Second and Third; but having, as at Kenelworth, a few ancient buildings, not only of the time of the Conquest but of Saxon times. And if it did not exceed the limits I have proposed; yet it would be to little purpose, to insert such descriptions: for although these noble structures are more magnificent, and nearer approaching to a resemblance of Windfor itself; yet they have fewer characteristic and striking marks of the introduction of the *Edwardian* style in building, than these smaller structures of inferior dignity: and the old remains of ancient grandeur, are so overwhelmed with modern magnificence and elegance, as hardly to be discerned. Even at Kenelworth, the additions made by the magnificent Earl of Leicester, in the time of Elizabeth, prevent the perceiving clearly what the condition of the building was in the

time of Edward the Third: and at Warwick, the splendid reparations and embellishments of Sir Foulk Greville, in the time of James the First, perplex the *painful Antiquary* exceedingly; whereas the two castles of Harewood and Spofford (which I have just described) manifestly remain, as to the disposition of the apartments, nearly in the state they originally were.

NEAREST to these, in the exhibition of original antiquity of architecture, is *Naworth* castle, in Cumberland, which there is the greatest reason to believe was built by Ranolph de Dacre, in the reign of King Edward the Third, and of which Mr. Pennant has given us a most curious account, published in Mr. Grose's *Antiquities*. It has still more of the aukward attempt of introducing convenience and magnificence; and still less of the cautious provisions for munition and defence, than those I have referred to.

To these venerable piles succeeded the *Castellated Houses*; Mansions adorned with turrets, and battlements; but utterly incapable of defence, except against a rude mob, armed with clubs and staves, on whom the gates might be shut; yet still mansions almost quite devoid of all real elegance, or comfortable convenience, and fitted only to entertain an *herd of retainers*, wallowing in licentiousness. At the same time, however, they discover marks of œconomy and good management, which enabled their hospitable lords to support such rude revels, and to keep up their state, even better than many of their more refined successors.

Of these buildings, one of the most perfect and most curious, now remaining, is *Haddon-house*, in Derbyshire, belonging to his Grace the Duke of Rutland: castellated and embattled, in all the apparent forms of regular defence; but yet

really

really without the least means of resistance, even in its original construction.

It was formerly the seat of the Vernons; who, Camden says\*, were not only an ancient, but a very famous family in those parts; insomuch that Sir George Vernon knight (living in Camden's time) for his magnificence, for his kind reception of all good men, and for his great hospitality, gained the name of *King of Peak*, among the vulgar. By his second daughter *Dorothy*, married in the beginning of Queen Elizabeth's reign, to Sir John Manners, second son of Thomas the first Earl of Rutland, the great inheritance of this family came into that of Manners; and, in 1641, was at last united with the Earldom.

THE high turrets of this mansion stand proudly towering on a rock, in the midst of thick woods, and in a most beautiful situation, looking down upon the river *Wye*, which winds along the valley, at a great depth beneath. It has undergone fewer alterations, and retains more curious vestiges of the residence of an old English Baron, and exhibits more manifest indications of the ancient mode of life, than any building I ever saw.

AT the first approach, you ascend a steep hill, which an horse can hardly climb, and which continues quite to the great arched gate-way that forms the entrance; this is directly under an high tower, and seems originally to have had double gates.

FROM hence you pass into a large square court, entirely surrounded by the apartments, and paved with flat stones; but you ascend it, at the corner, by a flight of angular steps, just within the gate, in such a manner, that it is impossible to have admittance otherwise than on foot; and no horse or carriage could ever approach the door of the house.

\* Camden, p. 494.

AFTER crossing this court, you come to a second flight of steps; which lead up directly to the great porch, under a small tower: on passing through which; you find yourself, behind the skreen of the great hall. A room, that most undoubtedly was originally considered as the only *publick dining room*, for the lord and his guests; and indeed, (after them), for the whole family: for, in tracing the ancient apartments, there appears manifestly to have been none besides of sufficient magnitude for either the one purpose or the other.

THE provision made, in the adjoining offices, for the convenience, and attendance, of the several servants of the household, is very curious.

ON the left hand of the great door of entrance, directly behind the hall skreen, are four large door ways, with high pointed arches; extending, in a row, the whole breadth of the hall; and facing the upper end.

THE first of these, still retains its ancient door of strong oak; with a little *wicket* in the middle, just big enough to put a trencher in or out; and was clearly the butler's station: for the room within still retains, a vast old chest of oak, with divisions for bread; a large old cupboard, for cheese; and a number of shelves, for butter.

BESIDES, out of this apartment (which is itself spacious, and separate from all the rest of the house), is a passage, down steps, to a large vaulted room, arched with stone, and supported by pillars, like the crypt of a church; which, though very light, and airy, was cool, and manifestly designed for the beer cellar; there being still remains of a raised, low benching, of stonework all around, sufficient to hold a prodigious number of casks; and a neat stone drain, all along before it, underneath, to carry away any droppings.

THROUGH



THROUGH this great arched room, is also another passage, to what was obviously the brew-house, and bake-house; where are remains of the places for vast coppers, coolers, and ovens.

NEAR adjoining are store-rooms; for corn, and malt; and a communication, from thence, with the outside of the building, for bringing in of stores. But, in all other respects, this whole suite of offices was quite unconnected with the other offices; and had no kind of communication, either with them, or with the rest of the mansion, except by the door of entrance, near the hall, in which is the little wicket.

THE second pointed arch, next to the buttery, and facing the hall in like manner, is the entrance of a long narrow passage, leading with a continued descent, to the great kitchen; and having, in the mid-way, an half-door, or *hatch*, with a broad shelf on the top of it, whereupon to place dishes; to which, and no further, the servants in waiting were to have access.

IN the kitchen, are still remaining two vast fire places, with irons for a prodigious number of spits; stoves; great double ranges of dressers; large chopping blocks; and a massy wooden table, hollowed out into a sort of basons, by way of kneading troughs for pastry. In the floor are several great iron rings, by which large stones were lifted up, that gave entrance to the drains. And adjoining to the kitchen, are numerous apartments, (far more than I have been able to specify with sufficient accuracy in the plan) by way of larders &c; all kept as distinctly annexed to this part of the offices, as those belonging to the buttery were to it.

THE next, (being the third of the great pointed arches, behind the skreen, at the bottom of the hall), opens merely into one very small, vaulted room, unconnected with any other; that

was

was clearly the wine cellar: which (according to the frugality and ideas of early times, when wine was considered merely as a cordial, and dram) needed to be but small.

THE fourth great arch is at the bottom of a great steep stair-case, quite distinct from the grand stair-case of the house; and leading up to a prodigious variety of small apartments; which, both from their number, and situation, seem to have been designed for the reception of guests, and numerous retainers: there being others, of a still inferior sort, in the rest of the house, for servants; especially in the range of building opposite to the great door of the hall.

SUCH was the use of these four great arches behind the hall skreen. And, if it may be allowed to indulge a little extent of imagination, we may with great propriety conceive, that they were the stations of the Butler, the Clerk of the kitchen, the Cellarer, and the Chamberlain or Steward of the household, of this great family.

THE provision for the officers and attendants being so great, we shall yet find, here, as in all very ancient mansions, that the apartments of the Lord of the castle (or what we should now call the state apartments) were very few in number, and little adequate to the rest, according to our modern and more refined ideas.

THE great hall of entrance, just described, was the only large apartment for dining. At the upper end remains the raised floor, where the table for the lord, and his principal guests, was placed: and along all one side of the hall, and also over the skreen at the lower end, is a gallery, supported by pillars; from whence (when the lord and his company had retired to the apartments above, and the inferior part of the family had supplied their places), the courtly guests, and their  
hof-

hospitable hosts, occasionally beheld the revels; and might survey the jovial crew below; who, according to the old distich,

“ Made it merry in the hall,  
“ When beards wagged all.”

FROM this great hall, at the upper end, in the corner, on the left hand, are two passages: one opening upon the terraces in the garden, inviting the guests to refresh themselves; and the other leading to the grand staircase, and the principal apartments above.

THIS staircase is formed of large blocks of stone; which can hardly be said to be either jointed, or joined; and from the top of it, on the right, you enter what we should now call a drawing room, hung with arras, and having a large bow window as the only light to it, at one corner; and a little door, at another, behind the arras, leading into the gallery just mentioned, which goes round two sides of the hall. This room, however, (whatever name we might now give it) was called the *dining room*, and probably had that appellation, because the Lord of the Mansion did, even originally, on some particular occasions, *here* entertain a few of his Visitors of high dignity and rank; and because afterwards, in latter ages, it became more commonly appropriated to that purpose, when a greater distinction was ordinarily made between the guests.

ON the left of the passage, at the head of the great stairs, you ascend again by five or six enormous semicircular steps (framed of solid masses of timber, as ill joined as the stone steps) to a fine long gallery, 110 feet in length, and 17 in width; which is now all wainscotted, in a curious manner, with fine oak, the freeze being adorned with *boars heads, thistles, and roses*. This wainscoting, though modern in comparison

son of the Antiquity of the house, is yet become, in these days, very ancient; and conveys an excellent idea of the magnificence of the intermediate ages. There is a great square recess, in the midst of the gallery, of 15 feet by 12; besides several great bow windows: and the whole puts one very much in mind of the galleries, in the old palaces in France, so often mentioned by Sully, and the French historians.

FROM this gallery, towards the further end, is a short passage, with an ascent of four or five awkward steps, leading to what might be called *my lord's parlour*; it having been obviously a sort of private apartment, destined to his use; from whence is a passage, behind the arras, through large, ill-framed folding doors, to a flight of stone steps, that lead down to the chief terrass in the garden. The freeze and cornice of this room are stately; but very rude; formed of plaister, and adorned with peacocks, and boars heads, alternately.

FROM this room you pass forward into a second; which seems, from its ornaments, and the whole disposition of it, to have been originally a sort of private dining room; or keeping room; but it was not large enough to entertain a number of guests. It may possibly, however, in latter ages, have been used as a bed chamber: and therefore I will not presume to decide any thing positively with regard to it. The freeze of this, like the former, is of plaister, not deserving the name of stucco; and is adorned with coats of arms, and with the two crests, peacocks, and boars heads: and over the chimney, by way of ornament, is an enormous large bass-relief, of the same clumsy composition, representing Orpheus charming the beasts.

THROUGH this room is one other, which seems to have been a bed chamber; out of which is a small winding staircase, in a turret, going up to the garrets, and down to the ground.

ALL



ALL these rooms, except the gallery, were hung with loose arras, a great part of which still remains; and the doors were concealed, every where, behind the hangings; so that the tapestry was to be lifted up, to pass in or out; only for convenience, there were great iron hooks (many of which are still in their places), by means whereof it might occasionally be held back. The doors being thus concealed, nothing can be conceived more ill fashioned than their workmanship; few of them fit at all close; and wooden bolts, rude bars, and iron hasps, are in general their best and only fastenings.

Besides the gallery, the dining room, and these three apartments, there were only *two* others; and those but small ones; which could be said to belong at all to the principal suite,

These two were entered, through a sort of closet, at the further corner of the dining room (or *drawing room*), and at the end of the furthestmost of them was a flight of narrow, steep, stone steps, leading down into the great court, near a low arched vault that forms the entrance to the chapel.

One of these apartments, however, is very remarkable; having an odd cornice, with a deep quadruple freeze, three or four feet in depth, if not more, formed of plaister, and adorned with a running foliage of leaves and flowers, in four compartments, like bands, or fillets, one above another. The room is hung with arras, as the others are; but, from a quaint sort of neatness, appearing in the whole of it, more than in them, I am much inclined to call it *my lady's chamber*. There is, behind the tapestry, the door I mentioned, leading to the steep flight of narrow steps, which descend into the great court, not far from the arch belonging to the chapel, and which gave her an opportunity of going thither, rather a nearer way than the rest of the family, and without crossing so much of the great court.

ALL the rest of this great pile of building (containing another large square court, besides that we have been speaking of) is filled with small, trifling apartments, not one of which deserves description; but which form a labyrinth, almost as inextricable as that of Crete; and which could be of no use, but to lodge a vast *host* of dependants, retainers, and servants.

COME we now to the Chapel, which is not less curious than the rest. Its entrance is from the first great court, under a low, sharp-pointed arch, looking more like the entrance of a cellar than that of a place of worship, and leading to a sort of antichapel, very low in height, and that has not a much better appearance. To this was no approach by any covered passage; nor was there any such approach to any gallery in it; no not even for the lord or lady; but, according to the rough hardness of the times, and climate, they were all to trudge, in fair weather or foul, through the open court; only the lady had, as just described, a nearer way of going than the rest.

THE chapel itself, has, at the entrance, two side isles, divided from the body by pillars and pointed arches, like a church: and in one of them are many long oaken benches, for the domesticks; the other side isle being taken up, with the pulpit, the desk, the ancient organ loft, and the stairs leading to them.

THE organ\* is now removed; but the wainscoting of the loft, all edged with burnished gold, like that of the pulpit, and desk, and seats for the family, still remain.

THESE seats for the family, consisted of two large high pews, on each side the body of the chapel, reaching from the middle nearly as far as the altar; and were large enough to hold many guests.

\* I call it the organ; but most probably it was rather originally here, as at Knowle, what should properly be called a pair of *Rigoli*, or *Regals*.

THESE

IN the great windows, over the altar, and on each side, are some good remains of painted glass. And in this chapel (which I never saw in any private chapel before) is an old stone *Font*, indicating the numerous tribe of dependants once here resident; and inducing one to conclude, that the extraordinary privilege of having the solemn rite of baptism administered, was for special reasons indulged, by the ordinary, in very early times, to this private chapel \*.

THERE remains also a nich, and basin for holy water, by the side of the altar.

I HAVE already observed, that this great house contains two large courts. Both of them are embattled, and surrounded with many turrets, and projecting bows: and they have a communication with each other, by means of the passage behind the hall skreen. The second court has also another great arched gateway, as well as the first; but not much less difficult of access to any carriage or beast.

HAVING hitherto carefully forbore to refer to any plan, to avoid as much as possible all perplexity and interruption, in the description, of this curious remain of antiquity; I shall now, in order to be better understood, subjoin the best I can devise, to illustrate what has been said. It is not indeed quite so exact as I could wish, being drawn only from the eye, and in some degree from memory; but is particular enough, in all the most

\* The rite of administering baptism, was esteemed so sacred by the ancient Ritual, that it was, together with that of burial, the distinctive mark, in general, of a Church fully consecrated: insomuch that lord Coke informs us (2 Inst. 363) that when the question at law was, whether such a sacred building were a *church*, or a *chapel* belonging to the mother church; the *issue* to be tried was, merely whether it had a *font*, and burying place; for if it had the administration of sacraments, and sepulture, it was judged in law a *church*.

material parts, to convey a true idea of the whole design, and arrangement of this ancient structure. And although the measures of the several rooms are not perfectly true, yet they are near enough to the real proportions, in all the principal apartments, to answer to the appearance which they make. As to the others, (which, as I before observed, form a perfect labyrinth), they are by far too numerous, too perplexed, and too small, to afford an opportunity of making any exact plan, without such vast labour bestowed, as would be to little purpose; since, after all, no useful information could be derived from a more perfect knowledge of their awkward confused proportions and disposition. On this account therefore, I have moreover, in order to illustrate, with the less trouble, what has been said, in one and the same plan, in some parts, (which will be sufficiently distinguished), confined the representation to the apartments *on the ground*; and in others, to *those above*; knowing there can be no loss of information, in consequence of my so doing; for those left undescribed, either above or below, are such little nests of rooms, as not to be worth the least notice.

In Fig. LXVI (A) shews the place of the great arched gateway, under an high tower; forming the first entrance; on the brow of a steep hill.

(ss) the angular steps, at the corner; by which you ascend into the great court.

(a) the second flight of steps, and the porch of the house, under another tower.

(b) the great hall; having no rooms either above it, or underneath. The dotted line represents the situation of the gallery, and skreen; and at the lower end, are the four great pointed Roë arches, marked (1), (2), (3), and (4).



N° (1). leads to the buttery (5), having a door with a small wicket window.

(6.) (6.) is the great cellar.

(7.) (7.) THE offices for brewing and baking.

N° (2). leads to the great kitchen at (8).

(10. 10. 10. 10.) are offices belonging to it; but having more divisions than can be here represented.

N° (3). leads to the small insulated wine cellar.

ALL these Apartments are either upon the ground, or partly under it; and above them are the numerous small rooms for retainers, to which the staircase leads from the great arch at N° (4), and of which it would be almost impossible to give any plan.

At the other end of the great hall, near the corner, at (c), are the principal stairs, leading to the grand apartments; just by the entrance to which, is a passage leading streight forwards to the terrais (22).

On ascending this staircase on the right hand, is the Dining room (d); (or, as we should now call it, the drawing room); having only one bow window in a corner.

On the left hand, is the Great Gallery (e).

(f) is the parlour: from whence is a short flight of steps, down to the terrais, at (p).

(g) is the second private apartment, which may have been used, in different ages, for various purposes.

AND (h) was another chamber.

ALL these rooms are ascended to by the great stairs; but have no chambers over them, except mere garrets in the roof; nor any apartments, except vaults, under them, on account of the continual and quick rising of the hill, from (z. 1). to (z. 2).

(i) is a closet, out of the dining room.

AND

AND (k) and (l) are what I call the Lady's apartments ; from whence is the steep stair-case, at (q), near the arch leading to the chapel, at (n).

(m) shews the situation of the chapel.

AND (ooo) are a number of offices, and small rooms ; to which there are various distinct stair-cases from the court.

(B). is the great arched gate way, belonging to the second court.

FIG. LXVII. represents the door of the great porch, leading into the hall ; with the two shields of arms over it, carved in stone. The one containing those of Vernon (which are *fretty*), and the other those of Fulco de Pembridge, Lord of Tong in Shropshire, whose daughter and heiress Isabel married Sir Richard Vernon, and brought a great additional estate into the family : these properly are *Barry of six, Or and Azure*.

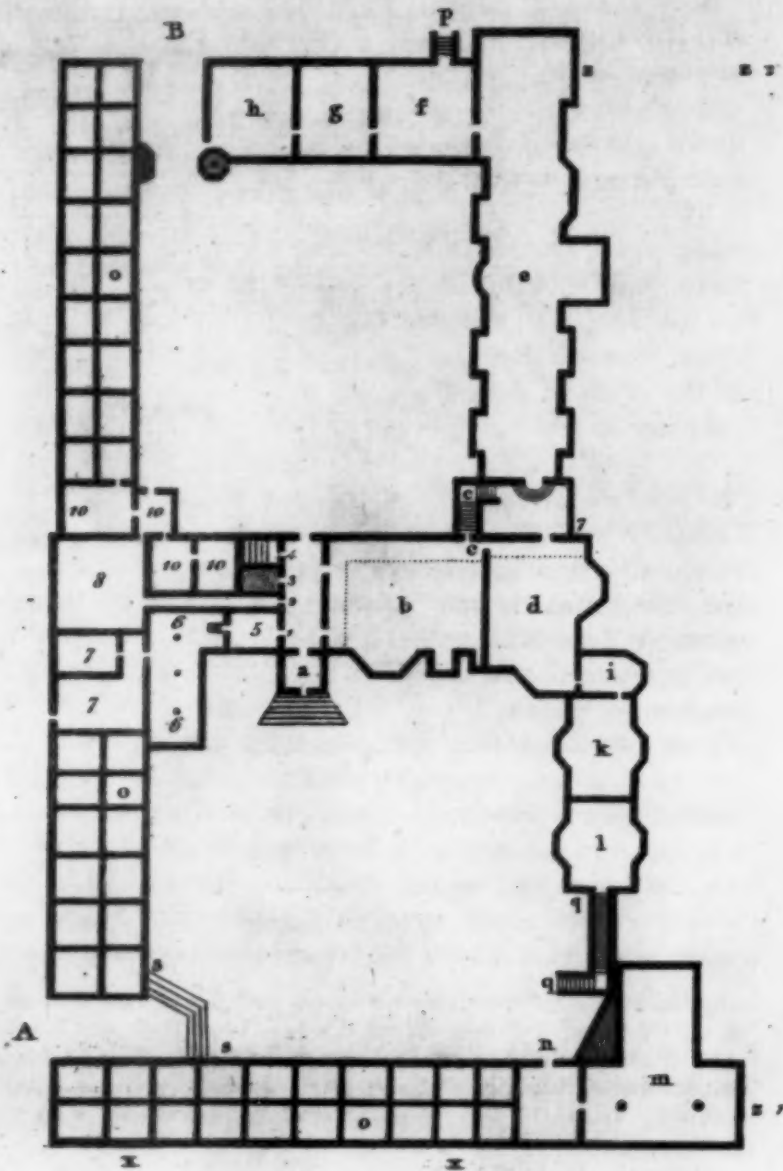
FIG. LXVIII. shews the design of the old wainscoting of oak, in the great gallery. The arms and devices of which, prove that it was put up *after* the house came into the possession of Sir John Manners ; and before the title of Earl of Rutland descended to that branch of the family. The arms are represented fig. LXIX.

THE ancient garden of this great house is but small ; consisting entirely of terrasses, placed one above another ; each having a sort of stone balustrade. At the end of one of these terrasses is an arbour : upon another a sort of small bowling-green\* : and from the lowermost, which runs along the side of the house, (XX) is a steep descent, of some hundred steps, down to the river. The highest terrass runs from (z) exactly parallel with the lowest.

SUCH

\* There was another great bowling green, far above the house, at a distance in the park ; and a third still more modern one, has been formed, higher up the hill, supported by walls, built round it, like a sort of hanging garden, and having a large

F. LXVI



Plan of Haddon House in Derbyshire.

W. Jones.





SUCH was Haddon house, with its environs. And much it is to be wished, by every lover of antiquities, that this princely habitation may never come so far into favor, as to be modernized: least the traces of ancient times and manners, which are now so rarely preserved in this country, any where, should be utterly lost also here.

NOTHING can convey a more compleat idea of ancient modes of living, than is to be obtained on this spot. Many great dwellings, which formerly helped to preserve the same ideas, are now quite rased, and gone: and others are only heaps of ruins; so far maimed, that it requires much attention to make out or comprehend, what they once in any degree were, or to understand any thing of their original plan.

YET, when once illustrated by such a perfect remain as Haddon, even such old ruins as those of the bishop of Lincoln's palace, at Lincoln, convey to us ideas of exactly the same kind of splendid hospitality, supported by, and conducted with the same sort of oeconomy. So also did the remains of Ely House, in Holbourn, when standing; although such alterations had been made *there*, in latter times, as might prevent an unexperienced observer from discovering the vestiges of the ancient splendid style of living in such palaces.

THIS odd mode of building, consisting of a vast awkward assemblage of a prodigious number of small apartments, with *few* good ones for comfort and convenience; but with great provision for a noble display of hospitality; had for one of the last specimens of it (though in a much improved style) the *old part* of the palace large summer-house adjoining: but neither of these are worth giving any particular account of. The prospect from thence is indeed fine: but they have nothing to recommend them as objects of attention to the curious, in any other respect. The great park that belonged to this house has been destroyed, and the land has been ploughed up, within these twelve years.

at Knowle \* in Kent ; at present the seat of his grace the Duke of Dorset ; but originally built by Thomas Bouchier, Archbishop of Canterbury, about the time of Edward the Fourth ; and improved by the Archbishops Morton, and Warham, in the reigns of Henry the Seventh and Eighth.

AFTER it soon followed the magnificent regular quadrangular houses : such as that at Cowdry in Sussex ; one of the most perfect of the kind, even exclusive of later improvements ; and as that at Penshurst, in Kent, the ancient seat of the Sidneys ; built in a ruder style, and more like the original kind of castellated houses, from whence its plan was derived.

IN the midst of the old hospitable hall of this house, at Penshurst, still remains the great fire hearth ; with the old frame of iron, big enough, and strong enough, to hold vast piles of wood ; and almost sufficient, if need should be, to sustain the trunk of a tree. Its form is sketched fig. LXX.

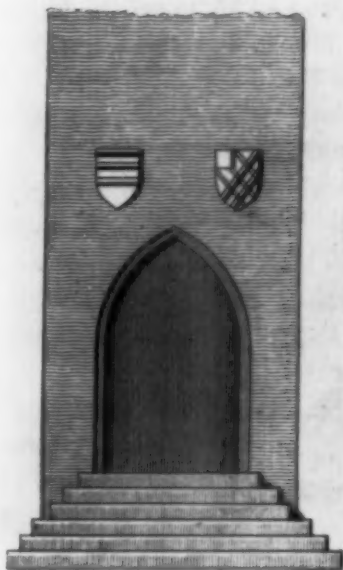
AT the upper end of the hall is a large table, on a raised pavement : and there is another still longer on one side.

THE steps, in some parts of this house, are vast blocks of solid oak : and the floor of the first state room, and of many others, are formed of huge thick planks of oak ; that seem rather to have been hewn out with an hatchet, or adze, than to have been either sawn, or planed.

THESE kind of structures, were followed by the stately buildings of queen Elizabeth's reign ; whereof we have fine specimens in Burleigh House, in Lincolnshire ; and in Hardwick House, belonging to his grace the duke of Devonshire, in Derbyshire : the latter of which, containing the state apartments

\* The improvements and additions made by Thomas Sackville, Earl of Dorset, in the time of James the First, are carefully to be distinguished from the old building.

F. LXVII



F. LXVIII



F. LXIX



F. LXX







fitted up by the Countess of Shrewsbury, for the reception of the Queen of Scots, and on account of the designed visit of Queen Elizabeth, remains in its primitive state, with the original furniture, to this day; and deserves to have a large and accurate account preserved of it, as a means of conveying to the curious, in times to come, an exact idea of the ancient style of living, and of the manners of that peculiar age. But this paper (designed to investigate matters of still higher antiquity) has already swelled to too large a bulk, to permit me to add any detail of that kind.

HAVING, therefore, *now* brought down the History of the Progress of Architecture (as far as it relates to castles, and noble buildings, the seats of residence of the ancient Barons of England) to a period with which we may more easily be made acquainted, I shall conclude with just making a short recapitulation of the whole gradual process.

AND 1st, we find the idea of grandeur, united with defence, supported even in the very small, inconvenient, strong *Anglo Saxon Tower*; scarce deserving any better name than that of a *Magnificent Den*; and just one remove beyond the Northern *Dun*: and it is curious to mark, how a sense of innate dignity, and the ebullitions of vanity, have attended the human mind, even in its lowest state of debasement; and whilst confined by every disadvantage arising from the want of art and science.

2dly, SUCCEED, on the first dawn of civilization, the improved, large, and convenient castles of Alfred.

3dly, To these follow the round Norman keeps, erected on high artificial mounts; and being indeed (in consequence of deeply rivited prejudices) a sort of *retrogression* of military architecture, and a return to northern ideas, rather than an improvement. But

4thly, SOON afterwards were introduced the beautiful and noble Towers of Gundulph: the fact seeming to be in this, as it has

often been in many other instances, that the conquerors were, in point of the improvement of arts and science, subdued by the conquered.

5thly, AFTER these succeed the *mixed* kind of Buildings; when the architects wantonly availed themselves of all the foregoing inventions, without much taste or discretion, and just as they pleased, or as time and opportunity permitted.

6thly, AT length came the grand and noble piles of Edward the First; manifestly derived from the opportunity of seeing, during the Croisades, the various refinements and improvements in foreign countries: when at length the idea of the Castle was nearly swallowed up in that of the Palace.

7thly, EDWARD III. completed the idea of the Palace; and that of the mere Castle began to be lost.

8thly, SOON, therefore, succeeded the spacious hospitable Mansion, embattled only for ornament; and containing vast combinations of ill-matched rooms, put together as if they had been added at various times, and by chance. And then at last,

9thly, FOLLOWED the well adorned Regular Palace.

THESE *Nine* stages seem fairly to comprehend *all* the regular successive alterations, from rude barbarity to civilization. And of every one of them we have specimens, that have stood, and (were it not for the efforts of illiberal and wanton mischief) are likely to stand, in this country, in some degree like the pyramids in Egypt, as lasting monuments of the earliest ages: but with the inattention and common prejudice of *natives*, we are too apt to think there is nothing worth regarding, or preserving in the spot where we dwell.

I SHOULD now close this Paper; but before I do so, I think myself under an obligation to attend to a reflection or two, that may occur to every judicious investigator of this subject. The first of these is, that the invention of cannon and fire arms was one great means of producing the neglect and alteration of the  
ancient

ancient mode of fortifying: and the next is, that even during the period in which the more ancient castles continued in use, there were also certain palaces of residence besides.

As to the first of these remarks, it may be said, that whatever the cause of the alteration might be, the effect was the same; and the investigation of this further cause, if pursued, would only shew, still more clearly, in what manner the various changes came to pass.

AND with regard to the second remark, it deserves to be noticed, that although there was indeed occasionally a residence also in palaces, and unfortified houses; yet it appears, from various passages in history (too numerous to cite on this occasion) that there was, moreover, as frequently, in the same ages, an occasional residence in these very castles.

THE Residence of *Gregory the Great*, in the castle of Dunadeer, in Scotland \*.

THE Residence of King *Edgar*, at Corfe Castle, in Dorsetshire: the Residence of Queen *Elfrida* and her son *Egelred*, afterwards in the same castle †.

THE birth of Edward the Second, in the castle of Caernarvon (where the very room is still shewn in which he was born ‡).

THE birth of Henry the Fifth, in the castle of Monmouth, when his father was duke of Hereford, and resided there (at which place his cradle is still preserved).

THE birth of Henry the the Seventh in the castle of Pembroke §.

THE entertainment of Richard the Second, with all due marks of Royalty, in the castle of Rudland; and in *the Keep* of

\* Boetius, lib. X. p. 213.

† Holinshed, vol. I. part II. p. 162.

‡ Holinshed, vol. III. fol. 282.

§ Stow, p. 471.

the castle of Flint, just before his surrendering himself to Henry the Fourth, as related by Froissart, Holinshed, and Stow\*; concerning which Froissart expressly says, that King Richard was in *the dungeon*, or Keep, when the Earl of Derby sent the first message to him; and gives a most curious account of the ceremony of sending *two Knights* to open the outward gate, to admit the Earl; and adds how secure Richard was against all attempts before he had consented to do so.

AND the abode of Henry the Fourth, in the castle of Pontefract; at the time Archbishop Scroop was taken, condemned, and beheaded†.

ALL these instances may be alledged, amongst many others, as proofs of this fact.

THE curious account also, given by Mr. Pennant, of the seat of *Owen Glendur* ‡, in Wales; who was a Chieftain of great power, in the time of Henry the Fourth, deserves to be mentioned on this occasion.

AND it may be added, that the residence of the good and venerable Archbishop Usher, even so late as the time of Charles I. in *Torfeckan Castle*, in Ireland, (whereof a curious plan is given in the *Louthiana* §); and the numerous small castles remaining at *Carlingford*, and *Dundalk* ||, in the same Kingdom, are remarkable instances of the continuance of the custom of dwelling in strong fortresses, kept up much longer in

\* Holinshed, vol. III. fol. 500. Froissart, part II. chap. 241—Stow, 322. See also a very curious account of this matter in Pennant's Tour in Wales, p. 46.

† According to the account given us of this transaction in Drake's Antiquities of York.

‡ Pennant's Tour in Wales, p. 305.

§ Part II. plate 20.

|| The Louthiana, part II. p. 6.



that country than in England, in consequence of its continuing much longer in an uncivilized state \*.

WHAT the style of building was, in the Palaces in use, in the times coeval with the Castles we have been describing, appears from the remains of those at Westminster, and at Eltham.

It is a fact little adverted to, that the greater part of the Royal apartments at Westminster, and indeed of the whole Palace, is still standing; and that the Great hall was the place where the Kings of England frequently dined, on all publick occasions, as well as on that of their coronation; and was considered merely as the *common hall* of the Palace, till the long continuance of the courts of *justice* there affixed a more sacred idea to the place; although *they* at first sat in that room, merely as following the king's Person; the judges of the courts being considered as a part of his usual attendants †.

THE

\* There is some reason to conclude, that in order to render the dwelling in the Round Norman Keeps more convenient; when their dimensions were made very large (as at York, Lincoln, and Tunbridge) that there was substituted, in lieu of the mere *open* well, in the centre, a sort of small *open Court*, with walls and windows all round: and this may be concluded the rather, because, at York, the mouth of the well, for water, is not in the middle of the area, so as to have been directly in the centre of the well, or area, for air and light, but on one side, as if it were originally in some one of the small apartments into which the lower floor might be divided: and the appearance of the remains of the mouth of that at Tickhill is in the same situation.

† It appears evidently, even from the words of Magna Charta, 9 H. III. c. 17. that the Court of Common Pleas was by no means *then* first established; but that it only was used, before that time, to follow the King's court, where-ever he was resident, as a part of his train.

See

THE great hall, at Eltham, probably built by Edward II, was also the common dining-hall of that palace; and is, in point of magnificence and unpolished grandeur, but little inferior to that at Westminster. More than one parliament was held here in the reign of Edward the Third; and in this palace that monarch also gave a princely reception to John king of France, who had been his prisoner. Here also the Lords and Commons attended him with a petition, to create Richard his grandson Prince of Wales, after the death of his father \*.

THE several Kings, Richard the Second, Henry the Fourth, Henry the Sixth, and Henry the Seventh, resided at this palace very much. And it appears (from a record extant in the Office of Arms) that even the last of them most commonly dined himself in the great hall, where his officers also had their respective tables †; from whence it may fairly be inferred, that his predecessors did the same.

I CANNOT, therefore, conclude this paper, without adding a short description of this Room of Royal entertainment, for the sake of connecting the idea of the magnificence displayed in early times, in the more peaceable habitations of our Monarchs, with the idea of that displayed in their more important fortresses and strong holds: and for the sake also of explaining one

See also the preface to Lord Coke's 8th Report; and also 8th Report, p. 145.

A very curious account of the manner in which the respective distinctions between the courts of King's Bench and Common Pleas took place; and in which their respective jurisdictions became established; together with a fair deduction of the obvious means whereby legal business was gradually drawn from the County courts, and transferred to these high courts, *residing* near the King's person, may be seen in Lord Chief Justice Hale's History of the Common Law, p. 140. 142. 150. 152. 159.

\* Hasted's History of Kent, vol. I. p. 51. Selden on Parliaments, p. 23. Cott. Rec. p. 123. and Rym. Foed. vol. IV. p. 422. 423.

† See further Mr. Hasted's History of Kent, vol. I. p. 51. (where many curious facts relating to this palace are collected), and the passages there referred to, in Kilburne, Philipott, &c. &c.

remarkable

remarkable appearance; namely, that of a *small window*, at the upper end, originally looking out of some principal apartment into this hall; a window similar to which (in imitation of these Royal halls) existed in almost all the more private *Noble* ones, for some centuries. And I the rather wish to draw the attention of the curious to this *window*, because its situation tends to illustrate a curious piece of history, adopted by our great Poet Shakespear, and but little understood.

THIS Royal Hall at Eltham, is now vulgarly called King John's Barn, having been long appropriated to the service of husbandry. Its windows are light and beautiful; its roof most elegantly wrought; and it was formerly highly adorned; though many of its ornaments are now broken and destroyed. The skreen, at the lower end, running before the offices, was rich; with a gallery over it for musick. The two great bow-windows, on each side of the upper end, in which were placed the side-boards, are ornamented with most beautiful tracery, and are most magnificent; and all the windows were obviously placed, with design, in such a manner, as to afford an opportunity of hanging arras under them.

THE whole room is 101 feet in length; 36 in breadth; and has 10 windows on each side; besides the bows, which are near 14 feet in width, and near 10 in depth. From the sides of these bows were the doors into the state apartments of the palace\*.

FIG. LXXI. is a view of the outside of this hall; shewing the window of one of the great bows, restored in part to its original appearance; and also the great door of entrance.

FIG. LXXII. is a view of the inside; representing the lower end; the skreen as far as its ornaments can be ascertained; and the two other doors behind it, leading formerly to the buttery

\* There is an exceeding curious plan of some remains of the offices of this palace, as they appeared in 1509, in Mr. Hasted's History of Kent.

and kitchen. Many persons now living remember this skreen entire; with the gallery over it for musick, adorned with a great profusion of ornaments; but these are all now gone, and have been destroyed within these few years, as well as the fine inverted Gothic pinnacles, that hung down from many parts of the roof, and enriched it greatly.

FIG. LXXIII. is an inside view of the remaining part at the upper end: shewing the place of one of the side-boards, in one of the bow-windows; where also was a door communicating with the inside of the palace; and shewing moreover the manner in which the side windows were placed, so as to allow space for the arras hangings occasionally put up.

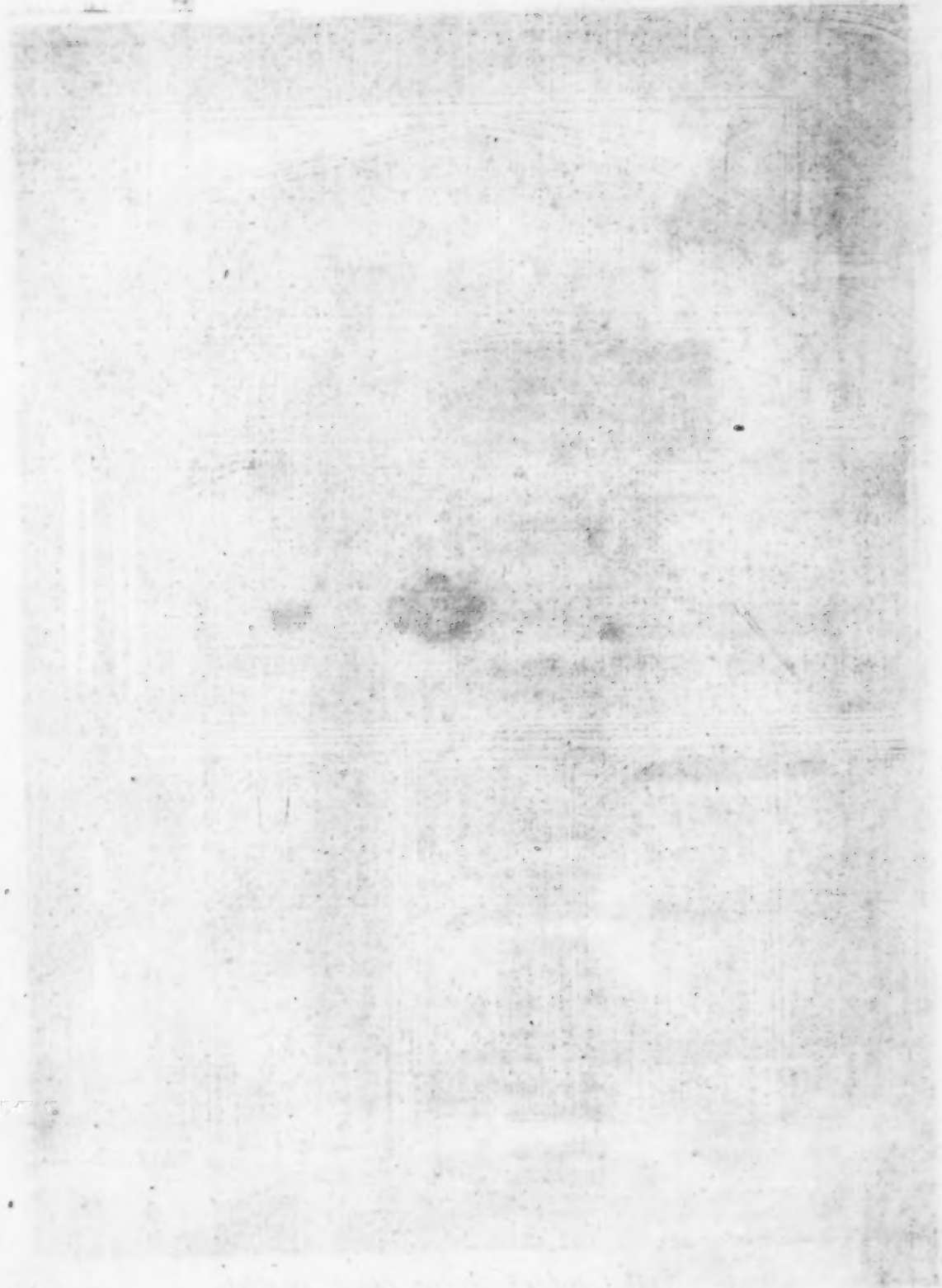
AND in this part is most observable the *small window*, now bricked up, at a considerable height from the floor, for the sake of which I have given this representation; and which (as appears upon accurate inspection) could have no opening outwards to the air, when the palace was standing, but must have been made merely to give a view into the hall, from some one of the Royal apartments above: a circumstance that seems very odd at first sight; but is perfectly consistent with what we find, upon examination, to have been a rule adhered to in the construction of almost all the ancient buildings of this kind; where vast hospitality was intended to be kept up, united with great dignity and magnificence.

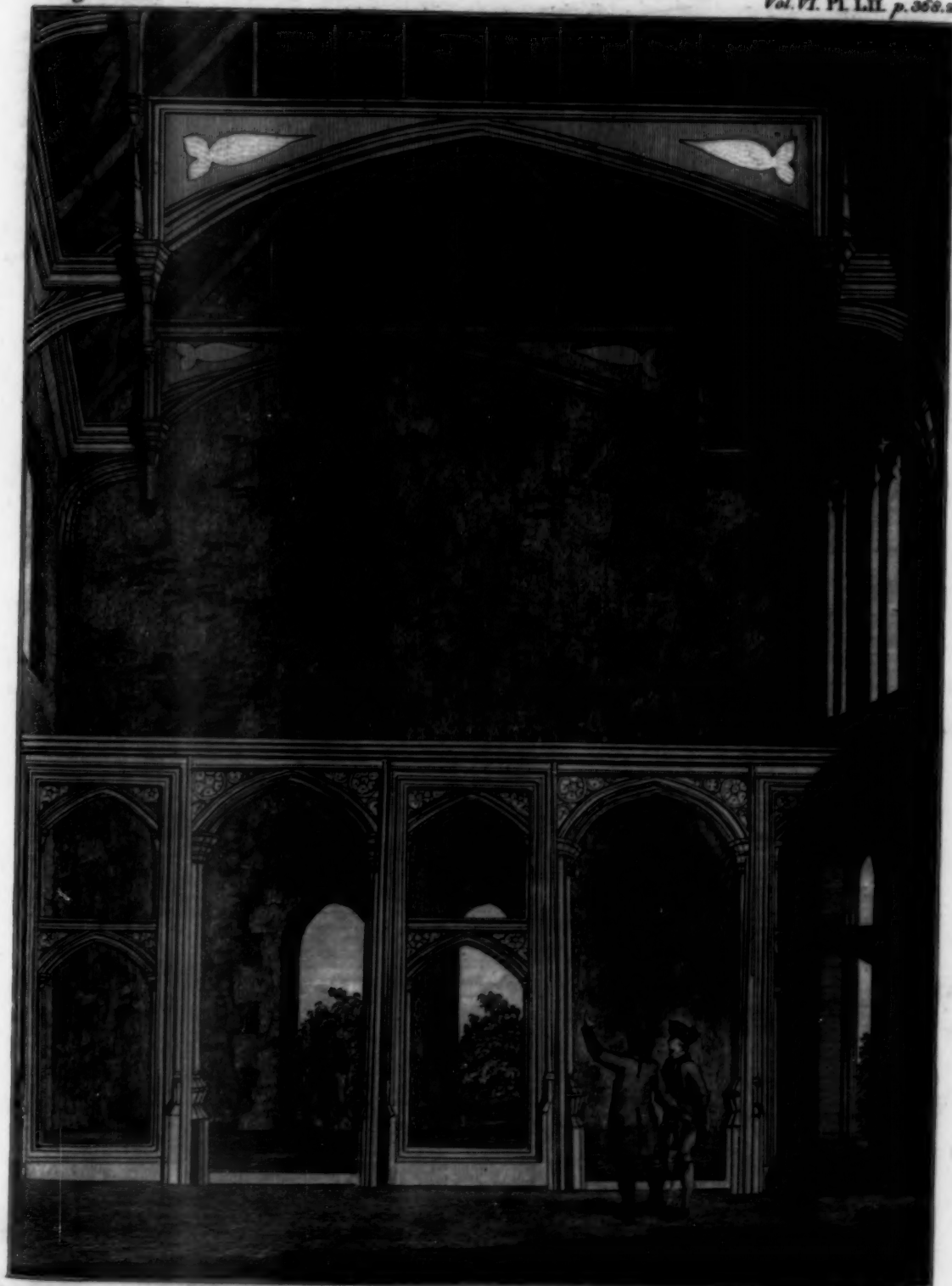
IN Ely House, in Holbourn, just before its being pulled down, it was discovered, that behind the wainscot, and the hangings of the great drawing-room (the same room identically that had always been a principal apartment of the house), there was a large recess, like a bow-window, neatly wainscotted with oak, which led merely to a little window, just of the same sort as that here described, looking into the



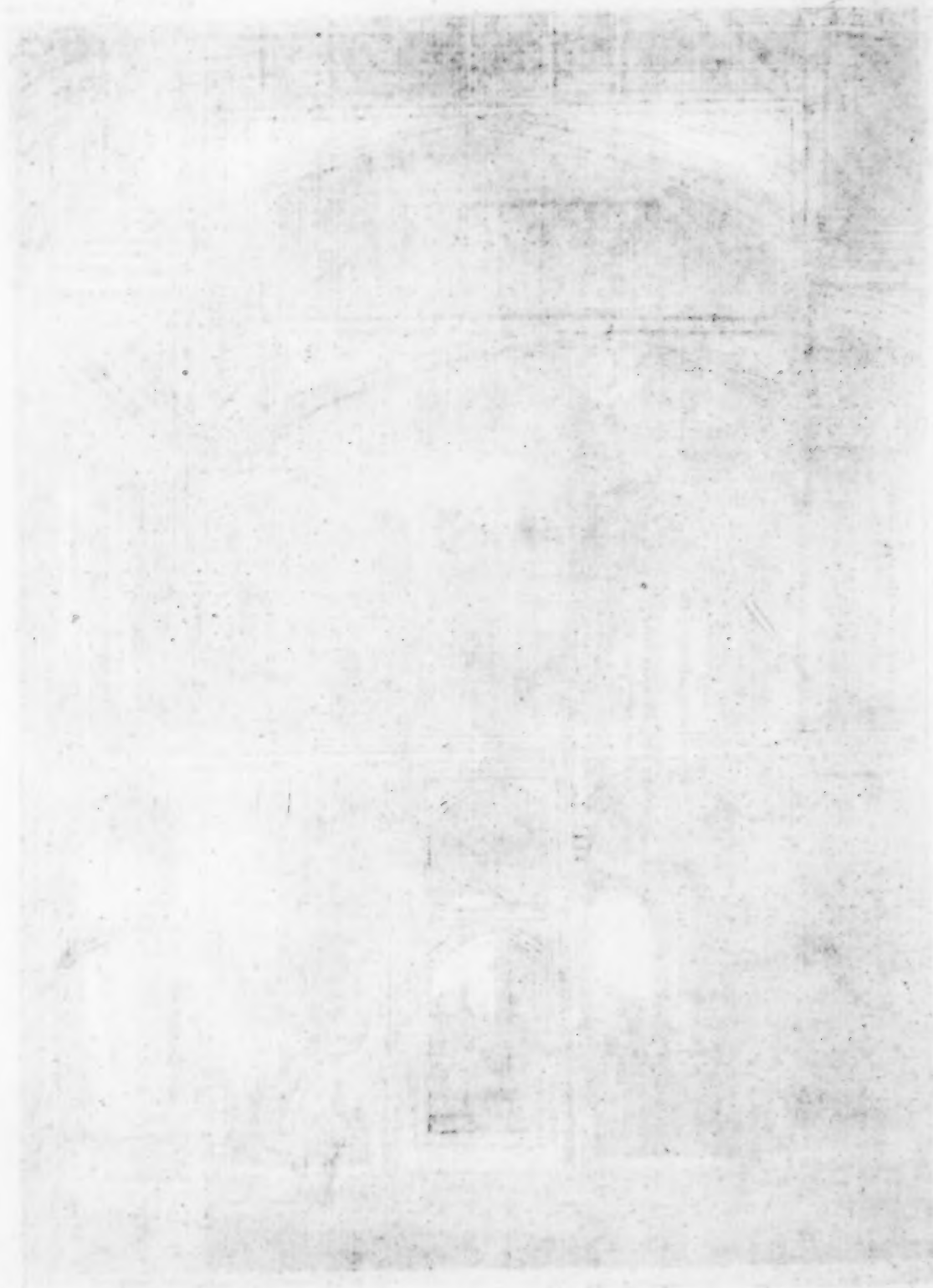


*Great Hall at Etcham.*

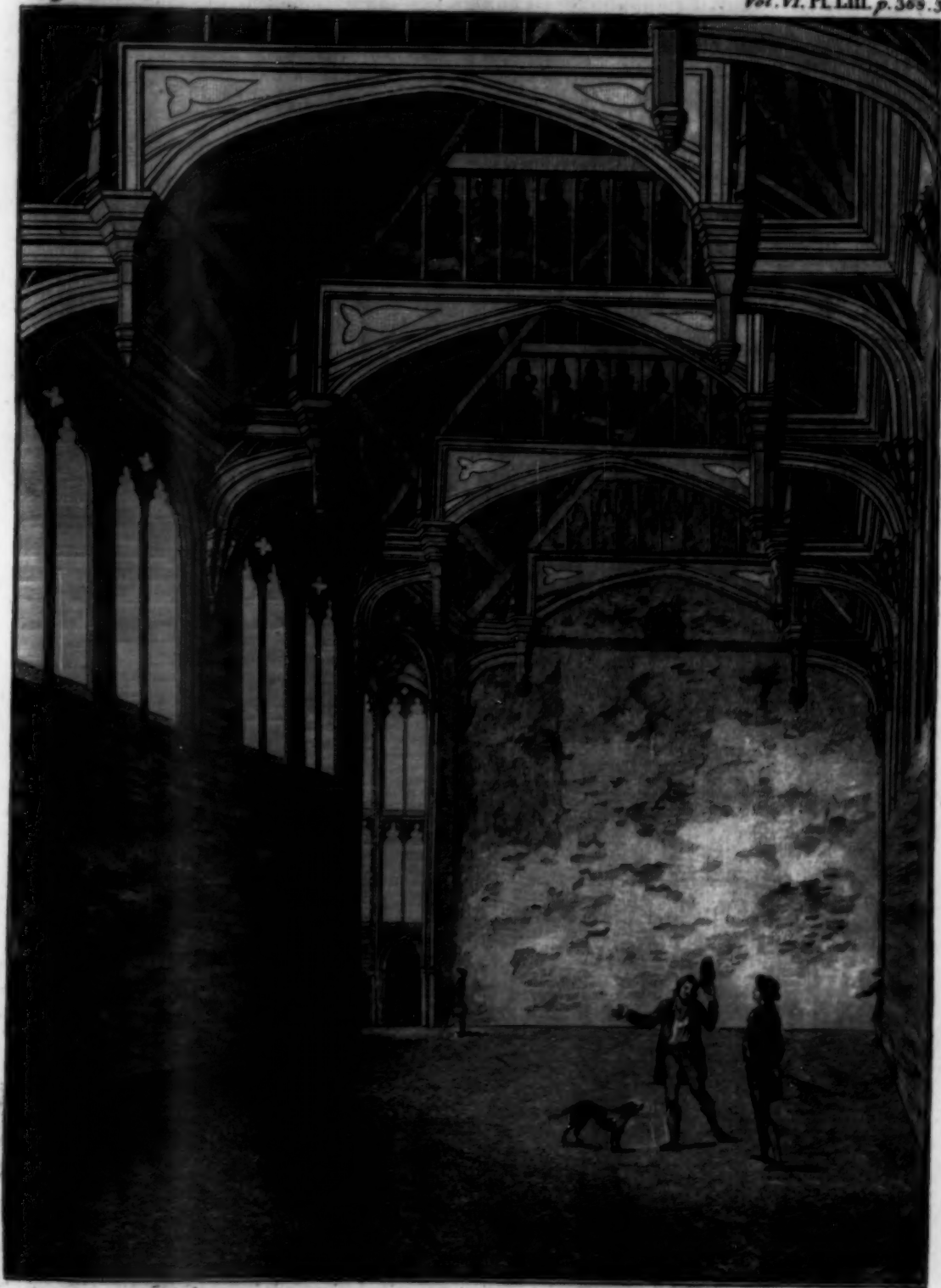




*South West End of Great Hall at Eltham.*







*North East End of Great Hall at Eltham.*



great hall, directly over the table at the upper end. It had long been stopped up; and the recess itself was at last quite hidden behind the wainscot of the room, and entirely concealed, when Bishop Gooch fitted it up for the last time.

AT Penshurst, in Kent, again, although the window there is now concealed, yet it is obvious there was originally just such another in the very same situation, looking into the great hall, from the great room above, in that house.

AN accurate observer will also perceive, that the same was formerly the case at Cowdry; and most probably was so at Audley End, before the modern great stair-case was built at that end of the hall. Many more might be named, and will occur to every person who surveys, with attention and curiosity, the venerable seats of ancient hospitality.

THESE windows we may therefore be assured had their *peculiar use*; and that use seems to have been, to give a constant view, from one of the state apartments above, into the great hall; both whilst the inferior part of the guests were assembling, before the lord of the mansion and persons of dignity went down to the common repast; and at other times occasionally, when there was any concourse of people in that apartment.

EVEN so late as the year 1669, when Anthony Wood went to Lambeth, to be introduced to Archbishop Sheldon, we find the Archbishop (occasionally at least) dining in the great Common hall.

WOOD, with his usual minuteness, tells us, that he was first carried into the gallery, where the company for a while entertained themselves, till the Archbishop came from the Council table; and then they all went down with him into the common hall, where were divers Bishops and persons of quality;

and, he adds, there was an *big table* went across the upper end of the hall; and tables on each side, as in College halls\*.

We find, however, that in 1641, the custom of great personages dining *constantly* in the common hall (as Henry VII. certainly did at Eltham) was somewhat disused: for in a very curious Memoir †, giving an account of the manner in which the Earl of Worcester lived at Ragland Castle, before the Civil wars, we are informed; that at Eleven o'clock the castle gates were shut, and the tables laid; *two* in the dining-room, and *three* in the hall. At the first table sat the noble family, and such of the nobility as came there. At the second table, in the dining-room, or great chamber, sat knights. At the first table, in the hall, sat gentlemen, under the degree of knights. And at the second table, gentlemen waiters and pages. Particular care was taken to place the guests according to their rank. In the middle of each table there stood a great salt-seller; and it was a mark of distinction whether a person sat above or below the salt ‡.

BUT however the mode of the Lord of the mansion himself dining in the great hall might be altered, as luxury and refinement were introduced; yet the continued use of that hospitable apartment, for the reception of numbers of his attendants, and the near adjoining situation of the great chamber, still preserve traces of original manners. And the curious Scene, introduced by Shakespear, in his Life of Henry the

\* Lives of Leland, Hearne, and Wood, p. 222.

† Published in the Antiquarian Repertory, Vol. III. p. 150.

‡ How far these ideas were carried, even into private life, appears from a clause in the Will of the famous *Bernard Gilpin*; for there we find that good man giving to his successor in the rectory of *Houghton*, in the time of Queen Elizabeth—in the parlour, one long table upon a joined frame, with the form; likewise in the hall, three tables standing fast, at which he used to entertain his parish.—See Gilpin's Life of Gilpin, p. 231.



Eighth, may be explained and illustrated, by the remains of the window in the hall at Eltham; by the remains of the similar window, with its closer, visible, as I have mentioned, within a very few years, in the hall at Ely House; and by these anecdotes even of later times.

SHAKESPEAR (who we may be assured would not describe a scene incompatible with the customs of an age so near that in which he himself lived) introduces Dr. Butts, as bringing the King to a certain window, to see the dishonour done to that good man, Archbishop Cranmer, by the spite and malice of his adversaries: and yet it appears, from Cranmer's discourse with the door-keeper, that he was *within* the palace; and the same may be inferred from what Butts says to Henry: for when, after having told the King, *that he would shew his Grace the strangest sight*; Henry had said, *Body o'me, where is it?* Butts instantly replied, bluntly, *THERE, My Lord: The high promotion of his grace of Canterbury, who holds his state at door, 'mongst pursuivants, pages, and foot-boys.* And the King, in conclusion, says, *Draw the curtain close; we shall hear more of this anon* \*.

Now it appears very odd to us, in these more refined and modern times, what window it could be, to which Dr. Butts could possibly bring Henry 8th, to see what was passing in the Hall, or any where *within* the palace; especially as that Monarch was one, who most undoubtedly neither loved trouble, nor could bear impertinence, or want of due respect.

FROM what has been said, however, we may fairly conclude how the whole matter was: and that Butts, who was as much of a Courtier as any attendant upon the king's person, knew what he was about, and did not presume to lead the king *out* of the royal apartments; nor trouble him to step to any other

\* Shakespear's Henry VIII. Act V. Scene II.

window, than that which was considered as properly belonging to his *Grace*, and reserved for his use, on all particular occasions; and which had generally a *curtain* drawn before it; namely the closet window, (similar to this at Eltham) looking from one of his own state-rooms into the great hall.

I HAVE now finished these Enquiries: and I wish I may be as fully understood by others, as I think I apprehend the result of them in my own mind. But still I am sensible, much remains to be done, for the further, more accurate, illustration of the subject. The pains I have taken, and the labour I have undergone (even in these slight surveys), convinces me how difficult it is to obtain *accurate* observations; and makes me the less wonder, at the imperfect and short accounts, left us by Leland, and Camden, with regard to these curious buildings; and the less ready to complain of the want of information from those curious antiquaries: the defect of which has so long occasioned great misapprehensions with regard to the nature of such structures; although their remains are still so very capable of flinging light on history, and of explaining ancient usages and manners.

I WAS not sufficiently acquainted, even after my most diligent enquiries, at the expence of much time and cost, either with Canterbury castle, or with that at Tunbridge (notwithstanding my utmost attention) till my friends had assisted me, a second time, with workmen and ladders, to survey the former; nor till my worthy friend, Mr. Hooker, the respectable proprietor of Tunbridge castle, a man of great ingenuity, had revised, and corrected, in consequence of his intimate acquaintance with the place, both my drawings and notes, with regard to the latter.

It is no wonder, therefore, if former antiquaries, who neither had any such advantages, nor had bestowed either such cost

or time; nor were aware of the importance and curiosity of the subject; should be mistaken, and give slight and imperfect accounts; accounts which it is high time to correct, and set right; and with regard to which, we must (in consequence of the present decaying state of these structures) receive further information *now*; or else loose the opportunity of it for ever.

I HAVE only to add; that, upon the whole, the Anglo-Saxon, Danish, and first Norman, structures, appear to me to have had what may without impropriety be called a sort of *Celtic original*; and that the first plan of them seems to have been brought from *Media*, and the East, through the northern parts of Europe, in very early ages of the world: whilst the rich buildings of Alfred, and of Gundulph, seem to have had a sort of *Roman original*; and to have had their plans imported, through the Mediterranean sea, by those who visited Rome, or engaged in Croisades. An idea strongly confirmed, by the resemblance of the castle at Lanceson in Cornwall, to the Capital of Media; and by the resemblance of the castle at Rochester, to the tower of Antonia at Jerusalem, as described by Josephus\*: which stood at the south east corner of the great area of the fortress called the citadel; was 70 cubits (or 112 feet) in height; and was first built by Hircanus, who *dwelt* in it, as did Aristobulus after him; was rebuilt by Herod; and was not only a *palace*, but a *prison* also, wherein St. Paul was confined: a circumstance which I endeavoured to illustrate in my former paper. And I cannot but add here, that it is a curious fact, mentioned by Josephus, that there was a *covered way* manifestly high above the ground, that led

\* Josephus's Antiquities. B. xviii. c. 4. § 3. B. xiii. c. 11. § 2. B. xv. c. 8. § 5. c. 11. § 4. War, B. i. c. 3. § 4. c. 5. § 4. c. 21. § 1. B. ii. c. 15. § 6. c. 16. § 5. B. v. c. 4. § 2. c. 5. § 8.

from the tower of Antonia to the temple; and that when this covered way was actually in the hands of assailants, and was cut down, and the other parts of the fortrefs were also in the hands of an enemy, this tower was still defended by those who had possession of it, till at last they were all taken and slain \*.

HAVING thus, as far as was in my power, endeavoured to do justice to the genius and abilities of our fore-fathers, exerted amidst the disadvantages and difficulties under which they laboured; and having endeavoured to trace, in some few respects, the progress of arts, and of science; I have only now to wish, that others may, with still more success, pursue this, and every various branch of enquiry, till a due and proper veneration be fully secured for whatever was *laudable* amongst our ancestors; and till the utmost possible exertions be kindled, amongst us, to avail ourselves of superior advantages; and to cause the increase and progress of whatever is good in the world, to be more rapid, and continually advancing; instead of declining. I am, Sir, with much respect, Yours, &c.

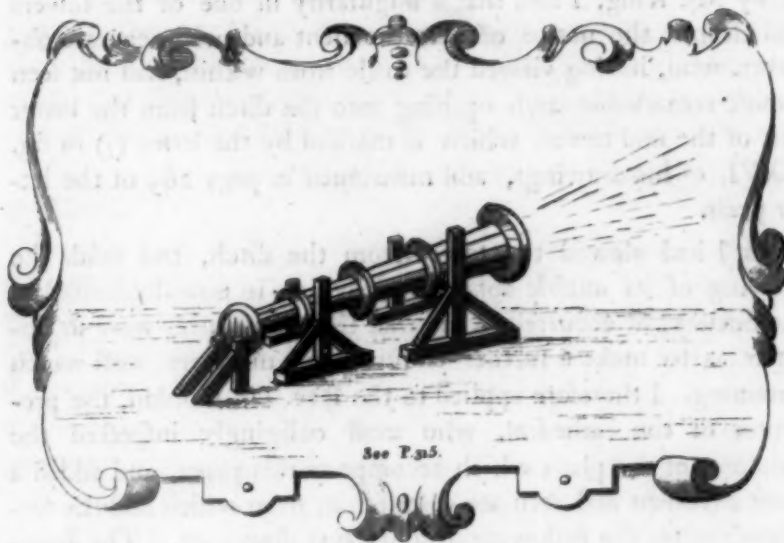
EDWARD KING.

\* B. II. c. 17. § 7.



P O S T S C R I P T.

I MOST earnestly wish some curious person, who has leisure and opportunity, would undertake to examine, more minutely, the remains of *British* castles in Wales; and of ancient *Scottish* castles, in the north; which, when compared with the curious accounts we have of *Pictish* and *Scottish* Duns, would nearly complete the chain of history relating to the rise and progress of fortified structures in this Island: and mark the way for further and still more curious investigations.



XXVIII. *Additions to Mr. King's account of Lincoln Castle. By Sir Henry Charles Englefield, Bart.*

Read May 16, 1782.

**I**N the account of Lincoln Castle, lately read to the Society by Mr. King, I find that a singularity in one of the towers had escaped the notice of that excellent and most accurate observer, who, having viewed the castle from within, had not seen a most remarkable arch opening into the ditch from the lower part of the said tower, which is marked by the letter (i) in fig. XXVI. of his drawings, and mentioned in page 265 of the letter press.

As I had viewed the tower from the ditch, and made the drawing of its outside appearance, which is now submitted to the Society, it occurred to me that the appearances were so singular as to make a further enquiry and measures well worth obtaining. I therefore applied to the Rev. Dr. Gordon, the precentor of the cathedral, who most obligingly inspected the measures of the plans which accompany this paper, and added a most excellent and accurate description, from which and the surveyor's notes the following account was drawn up. The drawing N<sup>o</sup> 1. pl. LIV. represents the outside appearance of the tower fronting the west. A is the great arch no less than sixteen feet wide in the clear, turned with stones two feet 1-half inch deep,  
in

in number forty-five, of no regular thickness, and no stone exactly in the key of the arch. The arch itself, the surveyor says, is ten inches lower than a semicircle; but Dr. Gordon thinks that the difficulty of ascertaining the point of its spring, as there is no impost, may lead to a supposition of its being a real semicircle.

BB, advancing walls which are now ruined so as not to admit of a guess how far they once extended, though they apparently supported a floor or stage of which four joist holes still remain at C: they are 11 by 13 inches and enter 2 feet 6 inches into the wall.

D, a small door having a semicircular arch crossed by a transom stone in the ancient Saxon style. This door, which is 6 feet 6 inches high and only 2 feet 4  $\frac{1}{2}$  inches wide, led from the lower to the advanced stage. Holes, as for bolts, still remain in the jamb of the door, which is now walled up and totally invisible within.

E F, two loop-holes covered with single stones cut circular at the top.

By the line of the present surface of the ground it appears that above eight feet of the original building is now buried, as may be seen in the view drawn by me. In this view also appears a hollow in the rock in front of the tower, and up this there went a flight of steps leading to the great arch, some remains of which were visible about twenty years ago, when the proprietor destroyed them, and in so doing found a singular old spur and a thigh bone of uncommon size, which he buried again.

THE workman employed says, that near the bottom of the ditch, something like a room was found with a fire-place and ashes, among which was a piece of iron bigger at one end than

the other, twenty-three inches long and  $7\frac{1}{4}$  square in the middle.

N° 2. pl. LIV. is a section of the building parallel to the west front and close to it, in order to give the internal appearance of the arch which is quite similar to the outside, except that a part of the jambs and vaulting stones are covered by a more modern wall on each side, so as to leave but  $8\frac{1}{4}$  inches on one side, and 10 inches on the other, free. This goes up perpendicular smoothly and well wrought as far as can be seen for rubbish, and was evidently the groove for a portcullis worked in the tower above.

At an interval of 10 inches from the arch shewn in the drawing, another is constructed of rather less diameter but semi-circular, and ornamented with chamfered mouldings, an impost and pillars with a capital, as will be shewn at large in the drawing N° 3.

THE loops marked on the outside E are within enlarged to the form expressed by the same letter in this drawing. It may here be observed, that all the referential letters go through the three drawings.

N° 3. is a section through the whole tower at right angles to the west front; and shews distinctly the great outward arch, the portcullis groove, and the more modern inner ornamented arch.

THE wall of the outward arch is five feet thick, but the superstructure no more than four.

THE portcullis groove is marked F both in this and N° 2. where it appears as a flat wall.

G is the inner arch with its impost pillar and mouldings.

H is a ruined wall in which are indications of a vault having gone quite along; and at I are the traces of a projection which probably was a bonding arch though apparently of newer work.

HAVING



HAVING now described the present appearance of the tower, it remains to speak of its materials and situation. Its materials are evidently the Lincoln stone, of which a reddish and harder stratum has been selected for turning the arches of both the gate and door above, covering the beam holes and closing the loops. This last stone is precisely the same with that used by the Romans in Newport Gate, and has at first the appearance of grit-stone but is not so.

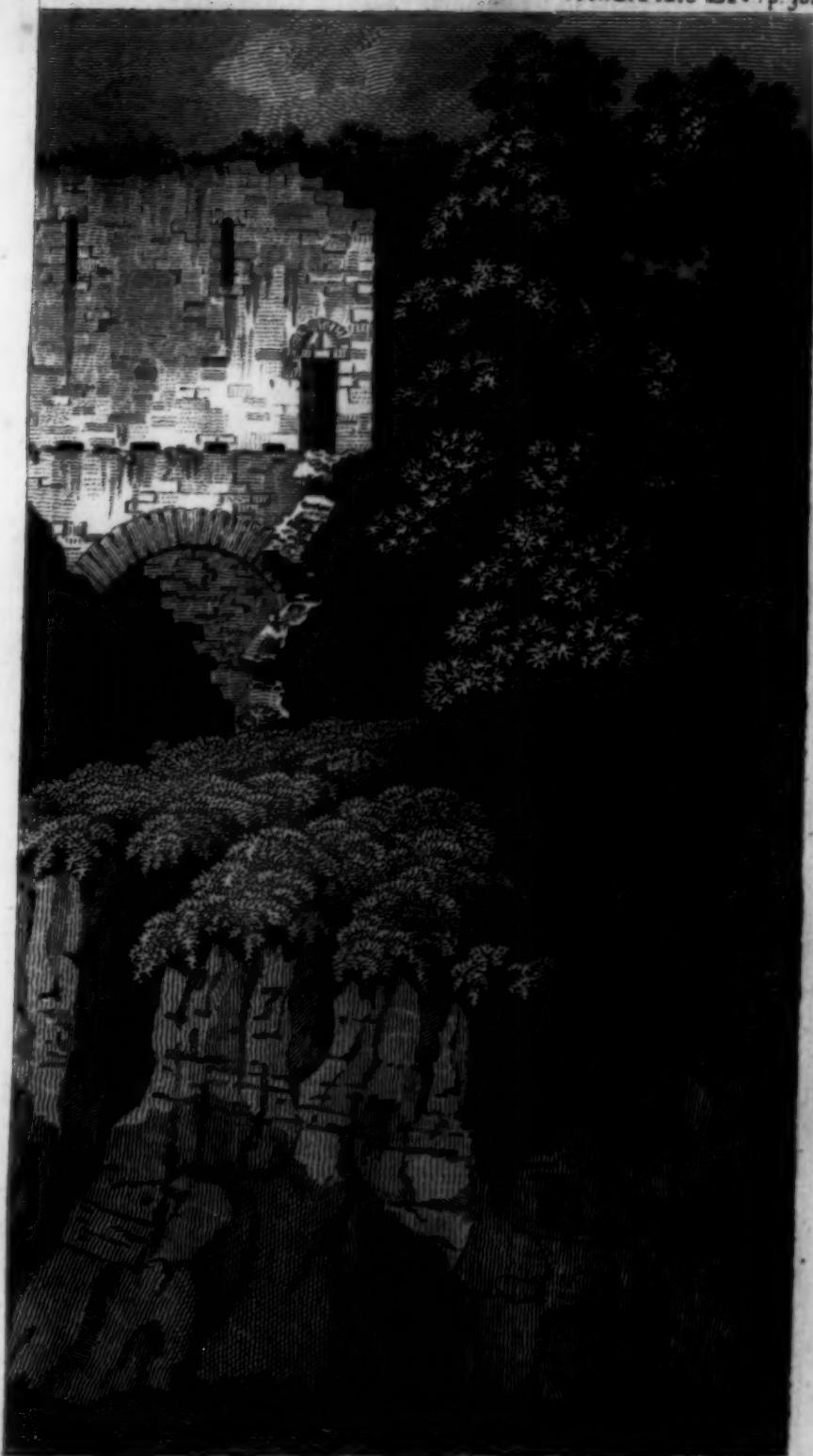
Its situation is precisely in the line of the Roman wall, and not far from the middle of the west side of it the distances as nearly as can now be measured, being from the north angle of the wall to ditto of the tower 209 yards, and from the south angle to the south side of the tower 161. The difference is 48 yards. The present wall is not of the same date as the tower, being carried up in a strait joint on both sides.

Dr. Gordon says that as near as the eye can judge, this arch is directly opposite to the site of the eastern Roman gate, which was only destroyed about twenty years ago.

HAVING now finished the description of the tower, both from my own view and the accurate notes of Dr. Gordon; I must add a few remarks on the singularities which occur in the ruin before me. The dimensions of the arch, its materials, its being so far below the present surface of the earth, and its situation in the line of the Roman wall, and opposite the east gate, would at once determine me to pronounce it the old gate of the Lindum of the Romans, did not some remarkable differences in this from the north and south gates still existing seem to discountenance the supposition. They have an impost, this has none. They are built of vast stones, this of rather small ones (though the three thin stones on each haunch of the Newport Roman arch are very like those which turn this arch); yet as the present castle which was built by William the Conqueror

is evidently of more modern time than the tower, and the tower itself appears to have been of a date posterior to the arch in question, as appears by the different thickness of the walls, &c. I cannot help still thinking that the Normans and Saxons both found this great arch built to their hands, and so instead of destroying, turned it into a postern when they dug out the ditch, and built a flight of steps to it. I must end by remarking that the diameter of this arch is much greater than any other gate now about the city, the Newport having been only 15 feet, and the castle great gate 13 feet 10 inches in the clear.

THE advancing stage for the defence of the stair-case into the ditch is also as far as I know a singular mode of fortification, and as it seems much like a makeshift to make an unusually constructed gate useful, may also strengthen the idea of its having been constructed long before it was applied to its present destination.



*Ancient Gate in Lincoln Castle. -*

Fig 1

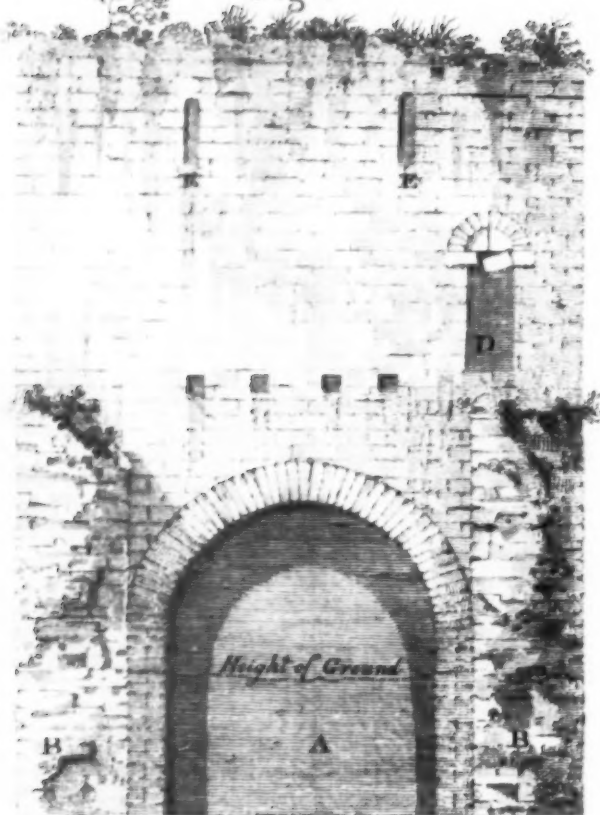
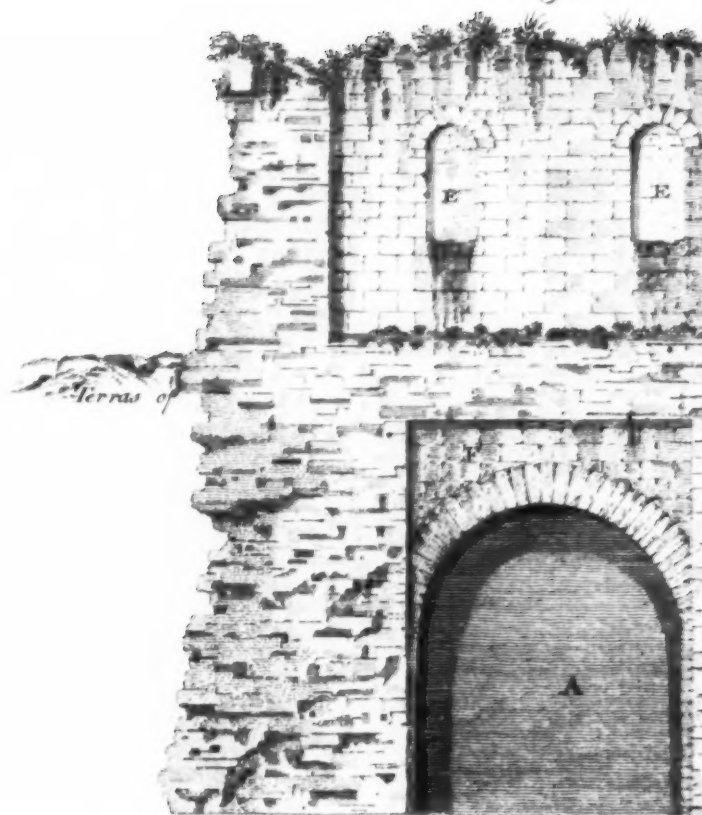


Fig 2

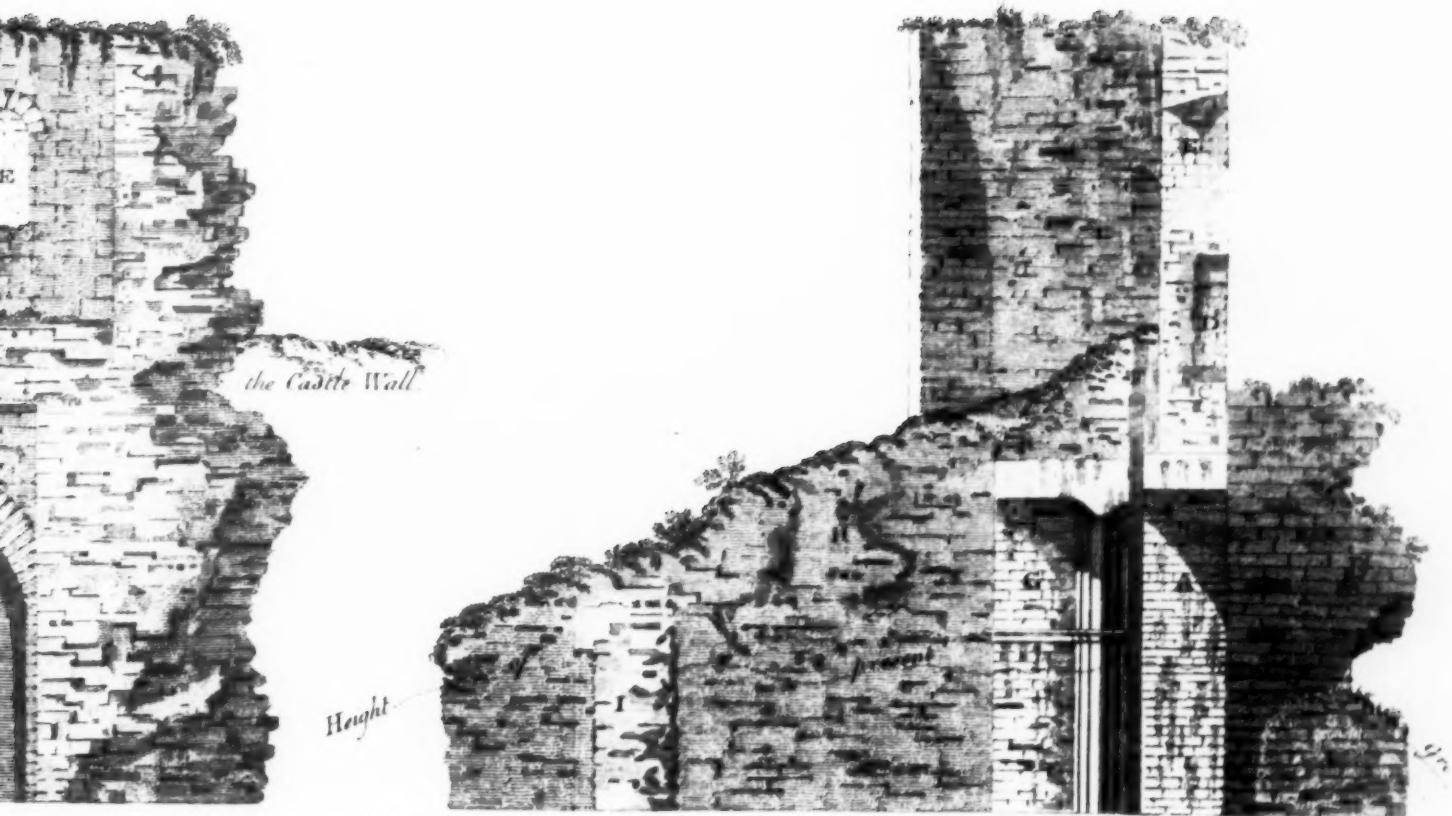


Scale 10

ELEVATION and SECTIONS, of



Fig 3



of a Gate in LINCOLN CASTLE.

HCE. del. 1782.



XXIX. *Observations on Rochester Castle, by the Rev.  
Mr. Samuel Denne. In a Letter to Mr. Gough.*

Read May 9, 1782.

SIR,

MR. KING, in his many ingenious and pertinent *Observations on Ancient Castles*, (published in the *Archæologia*, vol. VI. art. XXVII.) for the purpose of explaining the conclusions he has drawn from them, has given a full description of Rochester castle, which he remarks was in great part re-edified, if not originally built by Gundulph bishop of that see, about 1088. The justice of this prelate's claim to have been the architect of this venerable fabric is examined in the following disquisition; and, should the paper appear to you to be not unworthy of the attention of the society of which you are a member, by communicating it to that learned and respectable body, you will oblige.

Your faithful and humble servant,

SAM. DENNE.

*An Enquiry into the truth of the commonly received opinion, that Rochester Castle was built by Gundulph Bishop of that See.*

ROCHESTER castle was the last post of strength of which Odo, bishop of Bayeux, kept possession during the rebellion he had excited against William Rufus. The king, when he be-  
3. sieged.

sieged it, was at the head of an army which William of Malmfbury has termed invincible. It was certainly so formidable to Odo, and the other malcontents, that, numerous and powerful as they were, they in a short time capitulated, discovering that all resistance would be fruitless. As this was a place of very great importance, and as the sudden surrendry of it might have convinced the king that the old fortress was not so defensible as had been imagined, he determined to have a new castle erected, entirely of stone, and Gundulph bishop of Rochester was the person he wished to undertake this work. The memorial of this transaction is recorded in the *Textus Roffensis*, a manuscript generally allowed to have been compiled by Ernulph, who, after an interval of only seven years, was Gundulph's successor in the bishoprick of Rochester, and must therefore have had sufficient authority for the truth of his narrative.

IN order to save the trouble of turning to the *Textus*, a copy of the chapter referred to is enclosed; the substance of which is briefly as follows:

THE church of Rochester had for some years held the manor of Haddenham in Bucks, it having been a gift to Gundulph from archbishop Lanfranc, to whom the first William had demised it for the term of his own life, and, of course, it reverted to the crown on that king's death. His son and successor required one hundred pounds for renewing the grant; a sum so exorbitant, that the two prelates were amazed at the demand, and with earnestness averred, that neither had they so large a sum of money, nor knew they where to procure it. Two courtiers, who were well inclined to both parties, then suggested to the king, that as Gundulph was very intelligent and expert in masonry, his majesty might be greatly benefited by restoring Haddenham to the church of Rochester, upon condition, that  
the



the bishop should, at his own expence, build the castle with stone. When Henry, earl of Warwick, who was one of the advisers, communicated this proposal to Lanfranc and Gundulph, they were still more astonished, and peremptorily refused to comply with it; assigning for a reason, that if they acquiesced in these terms, the church of Rochester, as proprietors of the estate, would, in future, become liable to all the repairs of the castle; and declaring, that, rather than subject their successors to the exactions and distrains of the king's officers, they wished the manor of Haddenham to be at the bottom of the sea. The earl, growing temperately warm, expostulated with the archbishop upon this groundless apprehension, and assured both the prelates, that by gratifying the king in this matter, which might be done for forty pounds at most, and by afterwards shewing the earl of Kent, or his deputy, or whomever his majesty might appoint, that the work was properly executed, the bishop and the church would, in respect of this castle, be for ever discharged from any imposition, or service. Lanfranc being at length satisfied with these and the like reasons, an agreement was accordingly made, in the presence of the king, that Gundulph should build the castle entirely at his own cost, which Ernulph imagined might amount to sixty pounds.

LITTLE, if any, doubt can then be made of Gundulph's having erected a castle at Rochester, and upon a spot, styled by Ernulph, in the deed abovementioned, a very beautiful part of the city: and the only question is, whether the keep, or master tower (large remains of which are now standing) was what he constructed?

To the allowing of him to have been the architect the principal objections are, that he had not time for rearing a fabric so spacious and lofty—that the money, which, according to  
this

this antient MS. he is said to have expended upon this work, was by no means sufficient to compleat it—and that, though the tower might be begun by Gundulph, there is reason to think it was not finished by him, but by Corboyl, archbishop of Canterbury.

IT is the opinion of a very experienced workman, that, considering the stiffness of the cement used in building the walls of this castle, they might, without any danger of bulging, have been worked up in seven years at most; a circumstance not duly attended to by those, who have conceived that Gundulph had not time to erect the tower. The capitulation by Odo de Bayeux was made at the end of the year 1088; and archbishop Lanfranc, who was one of the parties concerned in the treaty for a new tower, died in June 1089. From the time, therefore, that Gundulph might, and probably did begin to build, to the time of his death, which was on the seventh of March 1107-8, there could hardly have been fewer than eighteen years; for it may be well concluded, that both William and Gundulph were solicitous to obtain the point each had in view; the King, a strong fortress, so necessary for the security of his realm, and the prelate the perpetuity of a valuable estate to his church.

THE objection to the smallness of the sum said to have been expended by the bishop in building the castle, may not be so easily removed, but it does not seem to be insuperable. What might at the close of the eleventh century be the whole cost of erecting such a tower cannot be ascertained with much accuracy; but thus far must be granted, that sixty pounds could not possibly have defrayed the whole charge. Is this, however, the clear and precise meaning of the words used by the writer of the *Textus Roffensis*? A different interpretation might be not unreasonably inferred, from its being higher, by twenty pounds, than

than the imagined estimate of the earl of Warwick, who made the proposal, and will be materially strengthened by the following observations.

ROYAL castles (and the castle of Rochester came under that denomination \*) were to be erected and repaired at the public expence; it was one of the three necessary burdens to which all lands, if not individuals, were subject. This was to be discharged, either by a provision of timber, stone, &c. such as the country afforded, or by conveying them to the place where they were to be used, or by other personal labour; for at that early period, a pecuniary commutation for these kind of services was rare. But, when the materials were collected, skilful masons were to be procured, and paid; and not many of these properly qualified could have been found among the English, this branch of building being then almost entirely carried on by foreigners.

OUR of the immense treasures, which the first William had hoarded up, and left in his palace at Westminster, and which his son had not had time to squander, he could have born the charge of paying the masons; but he was of a rapacious disposition, and willing, if he could, to cast the burden upon another. The one hundred pounds which William Rufus required for the manor of Haddenham, he might intend to have appropriated to this use, and this might be his inducement for listening to the proposal of Gundulph's performing the work instead of paying the money. Had this charge been defrayed out of the royal treasury, the king would certainly not have dispensed with any of the contributions and services he had a right to demand from his subjects; nor does there appear to be any

\* In the tenth year of the reign of Henry III. the sheriff of Kent was commanded to repair the great tower of Rochester castle. Lambard's Perambulation.

reason why the prelate should not have been suffered to avail himself of the same advantages. It was Gundulph's excelling in the art of masonry that gave rise to the negotiation between the king and him, which renders it highly probable, that this was the work he stipulated to perform; and by the assistance of the Norman artists, and others of the community of masons, who were then employed by him upon his cathedral and monastery, he was enabled to expedite the building of the castle. Perhaps, his engagement might include, not only the workmanship, but the finding of the comparatively small quantity of the Caen stone used for the arches and coins. The reader will weigh the plausibility of this conjecture; and before he decides upon it, let him consider, whether the sum, which the right reverend architect is supposed to have expended in building the castle, was not, at that time, sufficient to answer the charge of the foreign stone, as well as the mason's wages. For sixty pounds, according to the computation of Lord Lyttelton, in his history of the reign of Henry II. \* was equivalent to about nine hundred pounds of our money.

GUNDULPH's having left unfinished the castle he had covenanted to build is a notion too hastily adopted. The instrument in the *Textus Rossensis* declares the contrary; for it commemorates the bishop as a benefactor, in having recovered to his church the manor, which was the stipulated consideration, and that clear of all future claims from the crown to repair the castle. From the *Continuator of Florence of Worcester* † it seems likewise evident, that it was another fortress or tower that was erected by Corboyl, and which Gervase styles *egregiam turrim* ‡. A surmise shall therefore be suggested, whether the keep itself was not the work of the bishop of Rochester, and the archbishop the builder

\* *Octavo edit.* vol. I. p. 80. and 401. &c.

† P. 503.

‡ *Decem Script.* col. 1664.



of the small adjoining tower ; for, as Mr. King has justly observed, instances of large masses of stone work (though themselves of a very remote date) in more antient structures are not at all unusual. Not but that Gundulph, according to the customary mode of building these fortresses, might have added a small tower, as a confined and secure entrance into the keep, though he did not see the necessity for one so roomy and elegant as what is now standing.

MAY it not, however, be questioned, how far the architect of the adjoining tower had that prudent regard to defence and offence which is so conspicuous in the plan of the keep. Mr. King imagines, that the spaciousness of the windows in the vestibule were not, in case of a siege, of any material disadvantage. But affording an opportunity to an enemy to make a lodgment so near the principal entrance into the great tower, could not be politic, and indeed rendered of less importance the drawbridge and the first strong gate and portcullis, as the windows of the vestibule were not out of the reach of scaling ladders. Besides, its having windows, instead of loop-holes, would not admit of so many of the garrison's annoying the assailants without exposing themselves. On both floors of the little tower of admission into the keep of Dover castle, there are only loop-holes, which seems to be a better contrivance. (*Archaeolog. vol. IV. plate XXIV. fig. xvii.*)

THE disposition of the loop-holes and windows in the little tower at Rochester in an inverted order from that in which they are placed in the great tower, indicates them not to have been planned by the same person ; and any other difference that can be pointed out in the style of the two buildings will corroborate this notion. A dissimilarity there was in the arches and frames of the windows of the two towers, if Mr. King is not mistaken as to the antient plans he has represented, both

of those on the principal floor of the keep, and of the upper story, (see *Archæolog.* vol. IV. plate XXII. fig. vii.) which he judges to have been constructed much like those which are left more perfect in Canterbury castle. In these are seen round arches, and cylindrical pilasters, marks that distinguish the style of the earliest Norman buildings. The same is observable in the round-headed doors, and in the arches and massive pillars of the state apartments, with zig zag mouldings and ornaments, that bear a striking resemblance to those in Rochester cathedral, which were indisputably formed under the direction of Gundulph.

LET these particulars be laid together;—the clear and positive declaration of a contemporary writer, properly authenticated, that this bishop completed a castle at Rochester—his certainly having had time to erect the great tower now remaining—the sum he is reputed to have spent upon this edifice being adequate to the charge of doing that branch of the work, which, by a fair interpretation of the passage, was what he had engaged, and was, by his excelling in the knowledge of masonry, qualified to perform, as also a correspondence, as to the style and manner of execution, with works confessedly his, and after duly considering all these circumstances, it will most probably be granted, that the doubts of his not being the architect are raised upon a weak foundation.

BUT to this accumulated evidence must be added the long, and generally received tradition, of the castle's having been erected by Gundulph. Mr. Grose has remarked, that the form of the keep of Rochester castle is extremely similar to the white tower of London, which, as is mentioned in the *Textus Roffensis*, c. 201. was built under the superintendance of this prelate. And his claim to the credit of this employment, in which he acted merely as a surveyor, not having been questioned,

much less ought he to be deprived of it where the building was erected by him at his own cost. It is rather to be hoped, that as Rochester castle has for very near 700 years entailed honour on the name of this illustrious architect, so it will, whilst any remains of it shall subsist, continue to be called *Gundulph's Tower*.

Copied from the *Textus Roffensis* published by Hearne, p. 145, &c. cap. 88.

Quomodo Will's rex, filius Willelmi regis, rogatu Lanfranci archiepiscopi concessit et confirmavit Rofensi ecclesiae Sancti Andreae apostoli, ad victum monachorum, manerium nomine Hedenham: quare Gundulfus episcopus castrum Rofense lapideum totum de suo proprio regi construxit.

Mem. This title, though printed by Hearne before ch. 87. is, in the MS. prefixed to ch. 88. and inserted between red lines.

Aliud quoque beatae memoriae Gundulfus episcopus non minus memorabile illis contulit beneficium, sed omni potius omnibus seculis venturis dignum veneratione. Castrum etenim, quod situm est in pulchriori parte civitatis Hrouecestre, pro regia concessione illius doni, quod sepedictus archiepiscopus praedictae ecclesiae ad victum monachorum disposuerat dare, manerium videlicet quod situm est in comitatu de Bucingeham nomine Hedenham. Non enim aliter ut ratum permaneret ipsi ecclesiae illud absque regis concessione potuit dare, quia pater regis illud dederat archiepiscopo in vita sua tantum, ut sullimatus fuit in archiepiscopio. Unde Willielmo filio ejus ipsum patrem succedente in regno, ab archiepiscopo et episcopo de ejusdem

dem manerii concessione requisitus, respondit centum libras denariorum habere se velle pro ipsa concessione. Quod postquam archiepiscopus et episcopus simul audierunt, consternati valde pariter responderunt, illam tantam pecuniam neque tunc in promptu sese habere, nec etiam unde eam acquirere potuissent sese scire. Duobus autem amicis utrique patri \* faventibus, Rodberto videlicet filio Haimonis et Henrico comite de Vvarvic, hinc regium honorem, et integram ejus observantibus voluntatem, hinc vero amicitiae favorem et pro Dei amore ecclesiae praedictae magnificum ac profuturum honorem, regi consuluerunt, quatinus pro pecunia, quam pro concessione manerii exigebat, episcopus Gundulfus, quia in opere caementarii plurimum sciens et efficax erat, castrum sibi Hrofense lapideum de suo construeret. Quod ubi archiepiscopo et episcopo innotuit, tunc proculdubio magis consternati dixerunt, et regiae concessioni ex toto sese abnuere, etiam et ipsum manerium in profundo maris potius situm iri malle, quam praedictam ecclesiae Sancti Andreae futuris temporibus regis exactionibus mancipari debere. Nam quotiescunque quilibet † ex infortunio aliquo casu in castro illo contingeret aut infractioe muri aut fissura materiei, id protinus ab episcopo vel ecclesia usu reficiendam assiduo. Sicque episcopus et ecclesia futuri saeculi temporibus omnibus summa distractione regiae submitteretur exactioni. Isto itaque metu perterritus uterque, "absit hoc a me," inquit archiepiscopus, "absit quoque a me," inquit et episcopus. Responsum hoc audiens comes Henricus, quasi modestae stimulis irae commotus, honestatis dans concito fremitus, inquit "Haecenus, mea aestimatione" "ratus sum archiepiscopum Lanfrancum unum ex viris universi" "orbis extituisse sapientissimis, nunc autem nec insipientem," "quod absit, esse dico, neque illa quidem qua dudum sapientia" "callebat, in praesentiarum vigere ullatenus asserere audeo. Quid

\* Sic in orig. i. e. utrique *episcopo*.† Sic pro *quolibet*.

" enim



"enim gravedinis," inquit, "in hoc est, castrum ad ultimum  
"majus pro xl libris ad voluntatem regis facere, factum vero  
"comiti vel vicecomiti comitatus, seu aliis etiam quibus regi  
"placuerit monstrari, monstratum et ex omni parte integrum  
"liberare, semel vero liberato sese penitus expedire, nec un-  
"quam alterius inde se intromittere, nec etiam eo respicere?  
"Ad hoc regem adversus episcopum vel ecclesiam futurae ser-  
"vitutis occasionem nullatenus quaerere, imo potius eos ab  
"omni servitute liberare, atque sicut regem decebat, pro Dei  
"timore, et seculi honore, in summa libertate eos conservare  
"velle." His ergo, et aliis nonnullis hujuscemodi rationibus,  
tandem acquievit archiepiscopus. Igitur hoc pacto coram rege  
inito, fecit castrum Gundulfus episcopus de suo ex integro to-  
tum, constamine, ut reor, lx librarum. Quod quamdiu in  
seculo subsistere poterit, pro Gundulfo episcopo manifesto in-  
dicio quasi loquens erit, aeternum quidem illi ferens testimo-  
nium, quod manerium Hedenham ecclesiae, et monachis sancti  
Andreae, ab omni exactione et calumnia regis, et omnium ho-  
minum permanebit liberrimum, et quietissimum in secula secu-  
lorum.

XXX. *Governor Pownall on Roman Earthen-ware,  
and the Boundary-Stone of Croyland Abbey.*

Read April 1782.

SIR,

**M**R. Brander having entertained me at dinner with a desert served up in Roman earthen-ware out of his cabinet: on my mentioning this to my brother, he gave me the account [which stands in my paper, *Archaeol.* vol. V. p. 282.] of his having himself dragged up some pieces of Roman earthen-ware from off the *Pudding-pan Sand* or Rock, and showed me the three pieces there referred to, with several fragments of black earthen-ware. On examining them I observed on one the stamp *Attiliani M.* perfect and distinct; on the other, the traces, in the same sort of letters and stamp, of the same name, though not perfect. Whether the black sort ever had any stamp did not appear on the small fragments which I saw. I was led by this circumstance into a train of conjecture (for all that I have written on the subject deserves no better name) *on the things themselves, and the place* where they were found: and wrote a little memoir on them. In return to Mr. Brander's Civility, I sent this paper to him, with liberty, if he pleased, of communicating it to the Society. At the same time that he communicated this paper in 1778, he exhibited *six specimens* of his Roman earthen-ware, said to have been fished up at the mouth of the Thames. A note referring to these pieces, and not to *those* on which

which I wrote, was, without the sanction of the Society, subjoined to this paper as published in the *Archaeologia*, vol. V. p. 282. 1779. I had observed that the name *Attilianus* only (as far as I could see) was on this earthen-ware. The note observes *first*, that the earthen vessels mentioned in this paper are in the cabinet of Gustavus Brander, Esq. *next* gives the six specimens of vessels, referred to in that note, on one only of which appears the name of *Attilianus*. This directly contradicts the fact which I had stated as the ground of my conjecture.

THE observations I therein made were specifically confined to the *three pieces dragged up by my brother from off the Puddingpan Sand or Rock*, on which I could make out no other name than *Attilianus*; and I have particularly remarked that the letters of the stamp have "a precision of form, and a sharpness and neatness of cut equal to the Elziver or Glasgow letters." Whereas of the specimens exhibited by Mr. Brander, one only is stamped with the name *Attilianus*: three other names or rather marks of names, with letters not having a precision of form, are on three of them: a defaced and illegible stamp on one other; and on another no name, mark, or stamp. By thus comparing the paper with the note, the Society must see, *that these earthen vessels mentioned in the note, could not be the earthen vessels referred to in my paper.*

THE note as it stands in the *Archaeologia* annexed to my paper seems to convey a contradiction to the fact which I had stated as the ground of my conjecture. But I have now had the satisfaction to be assured "that no such sentiment was meant, or intended to be conveyed, by the making or the printing of that note: that it was inadvertently inserted, and related solely to the specimens of Roman pottery produced at that time by Mr. Brander, and not to the three pieces on

" which I had written my paper." The rectifying this mistake is a piece of justice done me which I acknowledge.

I DESIRE on this occasion to correct likewise *my own* mistakes. I have supposed the Pudding-pan Sand or Rock, which from the fragments of buildings of Roman brick found on it must have been an island, to have been the island *Caunos* mentioned by Ptolemy. I find since, that it was not the island *Caunos*; for that island lies on the Essex coast, under the name *Canue* or *Canvey* of which I was not aware at the time; and which hath also escaped the gentlemen who have commented on my paper, though better acquainted with that country than I am.

THERE is another mistake which I beg may be corrected. At the time I wrote the paper, I had not observed that there were any names on any of the earthen-ware I had seen at Mr. Brander's desert. The observing the name and stamp on that of my brother was what struck me, and gave occasion to my writing the paper. I afterwards learnt from Mr. Brander that there were names stamped on his ware also, and other names than that which I had observed on my brother's earthen-ware. I made a minute of this, and had I known that this paper was to have been published, I should have corrected, what I beg now to correct, the mistake I have been led into in those two passages where I say, " that on these holy vessels *only* one finds the " name of the manufacturer," and again, " that it is not usual " to have the name of the manufacturer on the earthen-ware " of any other kind." The fact turns out that various other names appear on the earthen-ware *found on the Kentish shore between Whitstable and Reculver*, as well as on those of Mr. Brander said to be found *in the same quarter*.

. Now as those vessels about which I wrote, and which I suppose to be *holy vessels of the Roman ritual*, were found on the Pudding-pan Sand or Rock *not on the coast but two leagues off*,



off, and have only the name Attilianus on them, the fact which was the ground of my conjecture remains as I stated it, and will so remain until some earthen-ware having other names than Attilianus on them shall be found *on that spot*, or until any of the earthen-ware which is now in the hands of the curious shall be ascertained to have been found *there*. The moment that that fact is made out, the ground of my conjecture will dissolve; and the conjecture itself be found to be a baseless fabric. I feel little interested in its fate, and had rather be convinced of an error than give occasion to one.

THERE is an *erratum* in the printing of my paper on the subject of the granite vessels found on the Musquito shore. *Turrene* has gotten into the printed copy, in the place of the word *Terrine*, signifying an earthen pan, as I wrote it. I beg it may be restored to its true orthography on a future edition.

IN another paper which I ventured to lay before the Society, I suggested a conjecture on what I supposed to be the true meaning of the Croyland-abbey boundary stone. I supposed this inscription to be a fragment of one which contained the names of the *Freres* who remained of the *old* abbey of Croyland, at the time when Turketull became abbot and restored it. *Clarenbald*, *Swarting* and *Thurgar* remained amidst the ruins of the old abbey. *Brown* and *Aio* had fled. Upon the restoration, These two last were recalled. They were wanted to settle the rights, title, and boundaries of the old abbey, but especially *Aio* who was a great lawyer. The five *Freres* made, with Turketul, a perambulation; and settled the Terrier, which Turketul marked by boundary stone crosses. This cross now remaining I supposed to be one of these, and finding the word *Aio* on it, I did not hesitate to say that the word *Aio* is not there the verb signifying *I say*, but the name of this learned lawyer *Frater AIO*, who was employed in the business of settling

ting these matters. As the stone appeared to me to be the *Frustum* of a cone, I supposed that the upper part which was broken off might have contained the names of the rest of the *Freres* employed in the same business. This conjecture has met with the criticism of a very learned gentleman, who also attacks the facts which I state as the ground of this conjecture; and rather than admit my conjecture seems willing to stick by the *botch verb*, *Aio*, I say. I will state *the matter of fact* and then withdraw from all further dispute. Fair discussion is the touchstone of truth; but if a Polemic spirit of controversy be once introduced into the society, it will soon pervert every end of its institution.

THE first objection made to my conjecture was, that the *pyramidical shape* of the stone, as given by Dr. Stukeley from whom I copied it, even supposing, what remains, to be a *frustum*, does not give room for the letters of the words and names which I suppose to have preceded that of AIO.

THE same gentleman after supposing from a drawing sent to him, that he had got a *fac simile* of the stone, states first, "that this stone is in fact a parallelogram." I will suppose that the learned gentleman means a *parellepipedon*. adly, That the stone "is compleat, never having been longer than it is at present." And therefore concludes, "that we can be sure there never were any more letters upon it than those which now appear."

THIS stone thus squared off at the top in *this supposed fac simile* cuts off at one stroke both my conjecture and the learned gentleman's own ingenious argument drawn from the pyramidical shape. I was told by my friend Mr. Bradley, of Lincoln, that Dr. Stukeley's draught of the stone was nearer the truth, and that Mr. Pegge was mistaken about it. This made me rather anxious to get the fact ascertained. Mr. Bradley recommended

mended me to a very ingenious worthy clergyman living at Spalding, to whom I might refer myself for examination of the facts. I took the liberty of troubling this gentleman, and of desiring him to send me an exact measurement of the stone; of its height; and of the breadth of each side or face of it, at the bottom and at the top; also to examine the top as to the fact, whether it was or was not compleat and intire, or whether it was apparently a fracture.

THE REV. MR. SCRIBO has in the most obliging manner, though under a state of ill health, made an accurate detailed survey of this stone, and the following is his account.

	feet	inches
" Height of the front or west side from the masonry at the base	3	1
" Breadth of ditto at the bottom	1	4
" Ditto of ditto at the top	1	1
" Breadth of the south side at bottom	0	9½
" Ditto of ditto at the top	0	8½
" Breadth of the east side at bottom	1	3½
" Ditto of ditto at the top	1	1½
" Height of the north side from the masonry at the base	2	11½
" Breadth of ditto at the top and bottom	0	9½
" The surface of the top of this stone is irregular and bears		
" manifest marks of a fracture, having amongst others, one		
" elevation of an inch in height, the corners between the in-		
" scription and the south and north sides are rounded (and not		
" angular), from two upright lines cut between each side of		
" the inscription and the said sides. The south and east sides		
" of this stone are plain and level, but the north side hath two		
" upright ridges between two half rounds, by excavations		
" made from the top to the base in the stone, such as may be		
" observed:		

" observed on pillars in churches. The stone is erected on  
 " masonry work of brick and stone."

THIS gentleman has also sent me an exact traced copy of the inscription, which differs from the copies given in Camden and Stukeley, but agrees to the minutest stroke with that made by Mr. Lloyd, as given in the fifth volume of the *Archaeologia*. This circumstance confirms me in an opinion I had formed, namely, that Mr. Lloyd's draught is a *fac-simile of the inscription*, which Mr. Pegge concluded to be a *fac-simile of the stone*, which proves not to be fact.

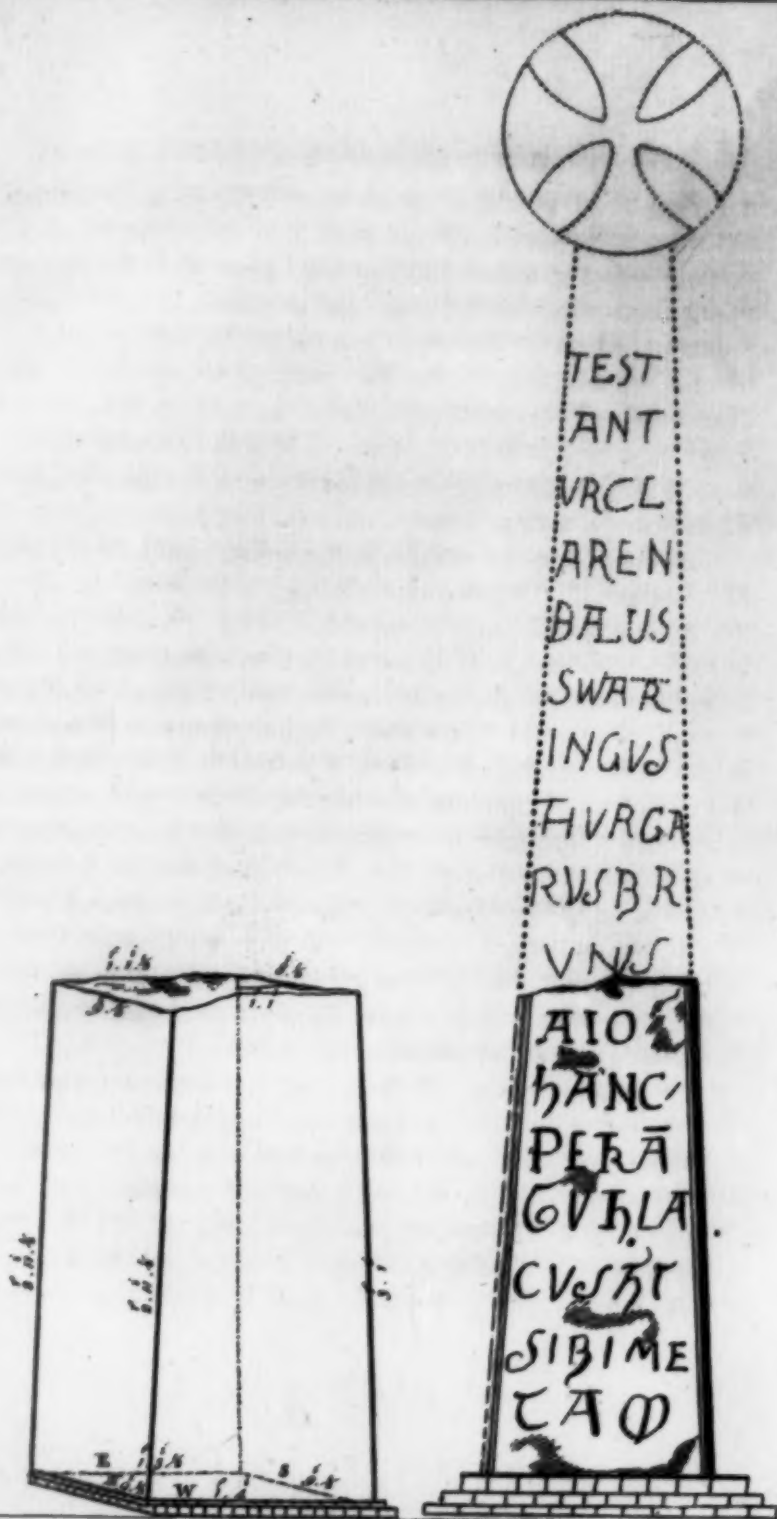
THE two lines on each side the inscription are not found in Mr. Lloyd's, but agree exactly with Dr. Stukeley's drawing of the stone.

MR. Scribo's account of the top of this stone being evidently a *fracture* agrees with the account in Camden, which says, " two miles from Crowland I saw the fragment of a pyramid." In other matters he differs from Camden, " this boundary-stone " (says he in his letter to me) stands on the right hand side of " the bank, not long since made a turnpike road, leading from " Croyland to Spalding, near to a house now, and in ancient " times, called *Brother-house*, at the distance of four and not " as Camden reports, of two miles from the former. If Cam- " den erroneously copied this inscription in his travels, it is not " the only error which, I find, he committed in his description " of the parish of Crowland."

I HOPE now I shall not be thought to presume too far on the ground of the fact, as ascertained by Mr. Scribo, respecting the shape of the stone, nor on the ground of reasoning, if I say, that nothing impedes but that there may have been " more " letters upon it than those which now appear" on this *frustum*.

LET us next examine from the same fact of the shape of the stone, whether before the top was broken off there was room  
 for







for the letters of the words, or names, which must have been there according to my suggestion of the inscription when compleat. We will refer to the fact as it lies in line and measure. I have made two drawings of this stone, the first is merely to give it in all its proportions; the second gives it as it now remains a frustum, from the fracture at the top of which I have protracted the lines of the sides in pricked lines, so as to give the supposed continuation \*. And in order to give in *experimental fact* proof that there was room for the number of letters necessary to compleat the inscription, I have dotted out the letters by their actual scale of size, as Mr. Scribo gives it to me. "The letters are in length from 3 inches to 3  $\frac{1}{4}$  inches."

I OBSERVED that both in Mr. Lloyd's and Mr. Scribo's traced copies, the word AIO has between it and the side of the stone a vacant space. Suspecting that there may have been but now effaced, either joined as thus NE or seperately, the two letters N and E, I have desired Mr. Scribo to examine this stone to this point. If the word should turn out to have been *Aione*, the dispute about it would be ascertained, and the supposed inscription would be *testibus*, with all the names in the ablative case, instead of *testantur* as I have now put it, and would be more in the form of instruments of this nature. With the most perfect respect and esteem for the Society, I have the honor to be their most obedient,

and most humble servant,

T. POWNALL.

\* See pl. LVI.

Presents to the Society since the Publication of the last  
Volume of the Archaeologia.

- |   |   |
|---|---|
| The Royal Academy of<br>Sciences at Gottingen.    | Novi Commentarii Societatis Regiæ Scientia-<br>rum Gottingensis, tomi I. II. III. IV. V. VI.<br>VII. VIII.  |
| Dr. J. C. Lettsom.                                | History of the Origin of Medicine.  |
| Dr. Gerard. Shoening.                             | Historia Regum Norvegicorum a Snoro Strulæ<br>Filio, nova editio.   |
| A. C. Ducarel, LL. D.                             | History of the Royal Abbey of Bec.  |
| E. Turnor, Esq.                                   | Chronological Tables of the High Sheriffs of<br>the County of Lincoln, and of the Knights<br>of the Shire, Citizens, and Burgeses in<br>Parliament, from the earliest account to the<br>present time. |
| Mr. John Nichols.                                 | Account of the Alien Priories, and of such<br>lands as they hold in England and Wales.  |
| Rev. Dr. Kippis.                                  | Vols. I. and II. of his new edition of the<br>Biographia Britannica.  |
| Sir Ric. Johnston, Bart.<br>of Guilford, Ireland. | Two Pennies of Edward I. one minted at Lon-<br>don, the other at York.  |
| Rev. J. G. King, D. D.                            | A Cross-bow found in Flodden Field.   |
| Tho. Pennant, Esq.                                | His Portrait, engraved by Sherwin.  |
| Will. Warren, M. D.                               | An Urn, dug up at Sandy in Bedfordshire.  |
| Hon. D. Barrington.                               | An old Collection of English Songs in Score.<br>A Gold Coin of Constantius, found near<br>Taunton.  |
|   | New Forms of Registers for Baptisms and<br>Burials.   |
|   | A Plan of Dunagoyle Fort, on the Isle of Bute.  |
|   | Sir   |



- Gustavus Brander, Esq. The Form of Cury, from a roll of antient English Cookery compiled about 1390, with an Index and Glossary, by S. Pegge, M. A.  
A Monumental Pillar, with Cufic Characters, brought from Alexandria in Egypt.  
A Mosquito Vase.
- Sir Rich. Worsley, Bart. History of the Isle of Wight.
- Jos. Edmondson, Esq. His complete Body of Heraldry, 2 vols. fol.
- Alex. Dalrymple, Esq. Five Prints of Views upon the Coromandel Coast, and a Map of the East-India Company's Lands on the Coast of Coromandel.
- Richard Gough, Esq. His British Topography, 2 vols, 4to.
- Mr. John Nichols. A new edition of Simon's Medals, Coins, Great Seals, &c.  
A Collection of all the Wills of the Kings and Queens of England, Princes and Princesses of Wales, &c. now known to be extant, &c.
- Rev. William Shaw. His Galic and English Dictionary, 2 vols. 4to.
- Mr. Geo. Allan. Hegg's Legend of St. Cuthbert, a new edition.
- J. H. Schlegel of Copenhagen. Four Islandic volumes with an account of some Books in Cufic Characters, in the Royal Library at Denmark.  
Sagan al Gunlaugi Armstungu ok Skald-Rafni, five Gunlaugi Vermilinguis, et Rafnis Poetæ vita Kristni-Saga, five Historia Religionis Christianæ in Islandiam introductæ, &c.  
Hungurvaka, five Historia primorum quinque Skaltholtenfium in Islandia Episcoporum, &c.  
Orkneyinga Saga, five Historia Orcadenfium, a prima Orcadum per Norvegos Occupatione, ad exitum Seculi duodecimi, &c.  
Descriptio Codicum quorundam Cuficorum, Partes Corani exhibentium, &c.

Mr. Mark Noble.

The worshipful the Treasurer and Masters of the Bench of the Hon. Society of the Inner Temple.

Mr. John Nichols.

J. T. Dillon, Esq.

Don Ant. Ponz.

Rev. Dr. Nash.

Rev. Dr. Morell.

Rev. J. Bowle.

Two Dissertations upon the Mint and Coins of the Episcopal Palatines of Durham.

An engraved View of the Temple as it appeared in the year 1671.

N<sup>o</sup> I. of Bibliotheca Topographica Britannica. Numismatum Romanorum Imperatorum et Imperatricum, omnium Metallorum et Magnitudinum, a Julio Cæsare ad Heraclium Aug. Series et Valor, a R. Gale, Armigero.

His Travels through Spain.

The 7th and 8th vols. of his Viage de España.

His Collections for the History of Worcestershire, in two volumes, folio.

Six MSS. 1. Æneas Silvius' History of Bohemia. 2. Lombardelli's Oration on the Origin of the Tuscan Language. 3. State of the Revenue of France, Normandy, &c. for 1 year, during the Regency of John Duke of Bedford. 4. Report of sundry memorable accidents befalling Dan. Archdeacon (an Italian fencing master) before and after the combat appointed between him and Thomas Mowbray (a Scotsman), A<sup>o</sup>. 1599. 5. Catalogue of the Nobility of England; and a List of the King's Courts of Record, his Household, Castles, &c. A<sup>o</sup>. 1616. 6. The Lives of the Roman Emperors from Julius Cæsar to Carolus V. the 121st Emperor, 1519; with the most memorable occurrences in their several reigns; by Sebast. Frank.

His edition, in Spanish, of Don Quixote, 6 tomes.

Rev.

- Rev. Dr. Swinney. Six vols. of Kollaris's edition of the works of Lambecius.
- John Wightwick, Esq. A Mezzotinto Print of Thomas Browne, Esq. Garter Principal King at Arms.
- Fran. Carter, Esq. His Portrait, engraved by Basire.
- Sir James Burrow, Knt. His Portrait, engraved by Basire.
- Sir W. Chambers, Knt. Two small Roman Earthen Lamps.
- Count Wilseck. Five different Views of the *Furca Caudina*.
- Rev. J. G. King, D. D. A Drawing, copied from an old painting, exhibiting a view of Greenwich, the Park, and the old Palace.
- Dr. Roberts. An Etching, by Green, of the S. W. prospect of Gifford's Hall, Suffolk.
- Hon. D. Barrington. Duplicate of the Taxes paid for Marriages, Births, and Burials, and upon Batchelors and Widowers, in Cirencester Hundred, in the county of Gloucester.
- A Poem, intituled, *Archerie revived*, or the *Bowman's Excellence*, by R. Shotten and R. Durfey, 1676.
- Gov. Pownall. A Map and Topographical Description of the Middle Colonies of North America.
- O. Salisbury Brereton, Esq. Bishop King's Sermon at St. Paul's Cross, before K. James I. &c. A<sup>o</sup>. 1620.
- The Imperial and Royal Academy of Sciences, &c. at Bruxells. The 2d and 3d vols. of their Memoirs; and Prize Pieces for the year 1779.
- The Rev. Dean Milles. His edition of Rowley's Poems.
- Sir W. Hamilton, K. B. The Supplement to *Campi Phlegræi*.
- Cha. Rogers, Esq. The *Inferno* of Dante, translated into English.
- Will. Jones, Esq. The Mahomedan Law of Succession to the Property of Intestates.
- Mr. John Carter. An etched Print of some Antiquities in Westminster Hall. The first, second and third sets of his engravings from ancient Sculpture and Paintings.

Rev.

*Presents to the Society.*

- Rev. Tho. Watton. His Specimen of a Parochial History of Oxfordshire : *Kiddington*.
- Samuel Pegge, Esq. The first part of his *Curialia* ; viz. on the obsolete Office of the Esquires of the King's Body ; and on the original Nature, Duty, &c. of the Gentlemen of the King's most honourable Privy Chamber.
- Ralph Willett, Esq. An engraved Print of an ancient Deer-hunter.
- Gabriel Lancilotto Castello, Prince of Torremuzza in Sicily. *Siciliæ Populorum, et Urbium, Regum quoque et Tyrannorum, Veteres Nummi, Saracenorum Epocham antecedentes.*
- Mr. John Nichols. Biographical and Literary Anecdotes of William Bowyer, Printer, F. S. A. and of many of his learned Friends, &c.



## I N D E X.

A		B	
<b>A</b>	BERGAVERN, Roman remains at,	<i>Ballium,</i>	249
<i>Aldbrough</i> , 41—46, inscription in the church,	13	<i>Barbican,</i>	308
<i>Aldburgh</i> family,	39	BARRINGTON, Mr. on the vitrified fortifications,	100
Amphitheatre, Roman, at Caerleon,	333—336	<i>Barrok</i> , St.	33
<i>Amphora</i> , Roman,	11	<i>Baruchus</i> island,	31. 32
<i>Anderida</i> ,	227—230	<i>Batta</i> writing,	156
<i>Andrašt</i> , 57— <i>wald</i> , 57— <i>heida</i> ,	57	<i>Barry</i> island,	32—33
Arch, Saxon,	57	Bath, Roman,	10. 11. 13
<i>Archcliffe</i> fort,	247	<i>Bede's house</i> at Cambridge,	174
<i>Apollo</i> , figure of,	187	BELL, Beaupré, on the ancient horologia,	133. 139. 141. 143
ANDERSON, Mr. on ancient fortifications in Scotland,	4	<i>Bernard</i> , Dr. his estimate of the Roman Congius,	221
<i>Andle</i> stone,	87—99	<i>Black bulwark</i> fort,	187
<i>Atillianus</i> ,	114	<i>Black mountain</i> ,	14
<i>Accensi</i> ,	123	<i>Blestium</i> ,	14
D'AUVERGNE, Mons. account of an historical monument in Brittany,	138	<i>Bradley</i> rocks,	110
<i>D'Agricworth</i> , Thomas, who,	144	BRAY, Mr. on Indian picture-writing,	159
Arch in Micklegate Bar not Roman,	147	<i>Bretagne</i> , historical monument in,	144
<i>Alfred</i> , 255—his buildings,	105	<i>Brembo</i> , Richard,	148
<i>Alexander</i> bishop of Lincoln,	361	Brick used by the Saxons,	104
<i>Ancaster</i> church door,	317	Bricks, Roman,	7—9
<i>Antonia</i> , tower of,	323	BROCKE, Mr. on a Saxon inscription,	39
<i>Aust</i> passage,	373	<i>Brough</i> , idols found at,	248
<i>Aveticum</i> or <i>Avanches</i> ,	7	<i>Bruno</i> , circle of,	98
<i>Abwick</i> castle,	12	BOWLE, Mr. on the ancient pronunciation of the French language,	76—78
Armorial bearings, whence,	346	<i>Boverton</i> ,	15
Architecture, nine stages of,	338	G g g	<i>Bovium</i> ,
VOL. VI.	361		

- Bovium*, 15  
 Building erected over a dial, 137  
*Bulcum Silurum*, 16  
*Burgh*, 248  
*Burligh* house, 360  
*Burlington*, lord, mistaken about Mickle-  
 gate, 105  
*Burry* bay and harbour, 33. 34  
 C  
*Caerdiff*, 15  
*Caerleon*, 10. 12. 73  
*Caerwent*, 7  
*Caereu*, 17  
*Caernarvon* } castle, 363. 364  
*Caringford* }  
*Carcliff*, 100  
*Cambridge*, Jews at, 164. 165  
 — round church described, 173  
 Camp, Roman, 12. 14. 17. 29  
*Cannings* furnishes ships, 200  
 Cannon of battery, 188—antient Eng-  
 lish, 189—their antiquity, 204—206  
*Canterbury* castle, 298—310  
 Castles, Mr. King's observations on, 231  
 —274, their origin, 373—Saxon, 244  
 —Norman, 257  
*Castle Ring*, 113  
 Castellated houses, 347  
 Castle guard, 307  
*Castleton* castle, 247—254  
*Cats stone*, 113—114  
*Ceres*, figure of, 2, seal of, 11  
*Le Champ des Anglois*, 149  
 Chapel in Harewood castle, 335  
*Charlemagne* rebuilt the church of the  
 Holy Sepulchre, 169  
*Charles V.* his arrival and reception in  
 England, 180—182  
*Chesterfield*, plague there, 80  
 Chimneys, antient, 289  
 Churches, the first various, 167—an-  
 tient, 168—169—St. Sophia, 170—  
 round, their origin, 167—that at  
 Cambridge described, 173  
 Cinque ports furnish ships, 195  
*Clatri*, or *Clatbri*, 133—137  
*Clepydra*, 135—138—139  
*Clifford's* tower, 82—285—261  
*Cobb's* hall, 265  
 Combat between the French and Eng-  
 lish, 147—149  
*Coningsburg*, 96  
*Congius*, contents of the Roman, 221—  
 226  
*Connisborough* castle, 234—246  
*Columna Moenia*, 135  
 Circle of stones, 29—of Bruno, 98  
*Colchester* castle, 125  
 Coins, Roman, 5. 13. 17. 18—Palmy-  
 rene illustrated, 30. 132  
*Corfe* castle, 363  
*Cored-gravel*, 13  
*Court-y-David* house, 25  
*Cowbridge*, 15  
*Craig y Gackig*, 12  
 Cross at Margam, 25—in Brittany, 144  
*Croyland* boundary stone, Mr. Pownall's  
 further remarks on, 394  
*Cwm*, 8  
 D  
 Day, commencement of, among the  
 Britains and Saxons, 150—153  
*Delisle*, Robert, built Harewood castle,  
 30  
 DENNE, Mr. his observations on Ro-  
 chester castle, 381—391  
*Derbyshire*, druidical remains in, 110  
*Drynnog*, 13  
 Dial, horizontal, 141  
 — antient, 133—143  
 — water, 143  
*Diana*, her temple at Ephesus, 69—75  
*Donat's*, St. castle, 28  
 Doors constructed like windows, 323  
*Dover* keep, 310—forts, 187  
*Drake*, Mr. corrected, 104  
*Draco de Bevrere*, 45  
 Druid monument, 57—temple, 113—  
 remains in Derbyshire, 110—115  
*Dun*, 238  
*Duns*, 95. 293. 294  
*Dun-o-deer*, 95, castle, 393  
*Dun Agglefegs*, 96  
*Dunrobin*, 97  
*Dunbeath*, 97  
*Dunageyle*, 100  
*Dundath* castle, 364  
*Dun bairn*

# I N D E X.

407

*Durham* abbey plan resembles Reading, 64

## E

Earthen ware, Roman, found on the Kentish coast, 122  
*Ecbatana* castle, 291. 292  
*Edward* III. his fleet, 213  
*Edwin* maintained his lands against the Conqueror, 51  
*Ely* house, 359. 368. 369  
*Eltham* palace, 366—368. 370  
 Embarkation of *Henry* VIII. 183  
*Enfield*, state of the plague at, 85  
*ENGLEFIELD*, Sir *Henry* Charles, his observations on Reading abbey, 61—on ancient buildings at York, 104—on Lincoln castle, 376—380  
*Esnecca* explained, 116—120  
*Esneke*, 119  
*Ephefus*, temple of *D'ana* at, 69—75  
 Epitaph of *William* Estfield, 269  
*Essex*, Mr. on Round churches, 163  
*Estfield*, *William*, his epitaph, 269

## F

Field pieces, 188  
*Fitz William*, 47  
 Fleet of *Edward* III. 213  
*Fletcher*, *Paul*, his good fortune, 85  
*Flint* castle, 363  
 Fortune, figure of, 2  
*French* language, antient pronunciation of, 76—78  
 Fortifications, antient, in Scotland, 88  
*Forbury*, 62

## G

*Garr*, the, 8—13  
*Gale*, *Roger*, on the antient horologia, 134  
 Garden at *Haddon* house, 358  
*Garioch vale*, 89  
*Gascoigne*, judge, his monument, 334  
 Gates at *Bury* and Reading abbeys, 247  
*Glendour's* castles, 364  
 Gold found in Scotland, 89—94

Golden gate at Jerusalem, 323—324  
*Gorseddau*, 114  
*Gorse* stone, 114  
*Gordon*, Dr. his observations on Lincoln castle, 379  
*Glamorganshire*, Roman remains in, 14—21—mildness of the air, 19—description of, 25—fossils, 36—38  
*Grace-dieu* carrack, 200  
*Gravestone*, 22—23  
*Great upon Little*, account of, 54  
*Greaves*, Mr. his account of the Roman congius confirmed, 221  
*Grenacre*, Sir *Richard*, 148  
*Greystock*, 49—50—52  
*Guilford* castle, 254  
*Gundulph's* towers, 361—his mode of building castles, 295—his treasury at Rochester, 296  
 Guns their antiquity, 204—206—207  
 Gunpowder, 206  
*Gunthard*, 47

## H

*Haddon* house, 346—358, garden, 358  
 Halls of palaces, 370  
*Ham*, 45  
*Hardwick* house, 360  
*Harwood* castle, 329—337  
*Hartle Moor*, 110  
*Harris*, Mr. strictures on his account of Monmouthshire, 6  
*Harry, Great*, a ship, 208  
*Harry Grace a Dieu* a ship described, 183. 184. 202. 207. 208—burnt, 209—its furniture, 216  
*Haselhem*, 132  
*Haselwood* manor, 329  
*Hatfield*, 131  
 Hearths in antient castles, 241  
*Helena* built a church on mount Olivet, 168. 169  
*Henry* II. his charter mentioning *Esnecca*, 116  
*Henry* VIII. h's navy, 201  
*Henry* VIII's embarkation, picture of, 179  
 Herring-bone work, 248  
 G g g 2 Hermitage,

- Hermitage,* 112  
*Hilthachia,* 119  
*Hendley West,* stone there, 54  
*Holy Sepulchre,* church of, built, 168:  
 169—rebuilt, 169—others built on its  
 model, 172  
*Homage Ancestrel,* 339  
*Hopton,* Richard, his monument, 23  
*Horn of Ulfus,* 42  
*Horologia* of the antients, 133—143; one  
 found at Talore, 133—horologiare  
 templum, 135  
*Hours* proclaimed by cryers, 138—140
- I
- JACOB,* Mr. on the Roman earthen ware,  
 found on the coast of Kent, 121  
*Idols* in ancient castles, Saxon, 243—248  
 —253  
*Jebath,* 131  
*Jebu,* his inauguration, 293 n.  
*Jews* in England, 163—at Cambridge,  
 164—their synagogue there, 165  
*Jewry,* 163, 164—166  
*Indian* picture writing, 159  
*Inscription* to Pompeius Carantopius, 17  
 —Saxon at Aldbrough, 40—on druidi-  
 cal remains, 115—on a dial, 133—on  
 a cross in Bretagne, 145  
*Jocelin,* 144  
*Jobath,* 131  
*John's,* St. hospital and college at Cam-  
 bridge, 175  
*John of Gaunt,* had his summer and win-  
 ter palace, 264  
*Leish* castles, 364  
*Ifca Silurum,* 9  
*Isackia,* 119  
*Julia Streta,* 8 9—17  
*Jupania* or *Jupania,* 15
- K
- KEATE,* Mr. on the Roman earthen ware  
 found on the coast of Kent, 125—129  
*Kesh-Pwll-du,* 18  
*Kemfig,* 26
- Kenelworth* castle, 345  
*Keeps,* 234—introduced, 257—antient  
 in castles of later date, 327  
*Kesvaen,* 29  
*Kildrumy* castle, 294  
*KING,* Mr. on Castles, 321—374  
*King,* a stone so called, 112  
*Knareborough* castle, 321—326  
*Knockferrel* hill, 88  
*Knolys* family, 146  
*Knowle,* 360
- L
- Lambeth* palace and hall, 369  
*Lanceston* castle, 291—293  
*Landoff* cathedral, monument in, 23  
*Langattock,* 10  
*Language,* old French, how pronounced,  
 76—78, Sumatran, 154  
*Lantwit major,* 16—21, 22—23  
*Lanvair is Coed,* 10  
*Lead* mine, Roman, 18  
*Lethicullier,* Mr. } observations on Wales,  
*Lyttelton,* bishop, } 22, 23  
*Lhwys,* Mr.  
*Leucarum,* 16  
*Lincoln,* bishop's palace at, 359, castle,  
 Mr. King's observations on, 266, 257,  
 261. Sir Henry Charles Englefield on,  
 376—380  
*Lucy* tower, 265
- M
- Machines* for battering, 298  
*Magnis,* 13  
*Mam Tor,* entrenchment on, 247  
*Maps* of Wales erroneous, 26  
*Margam,* cross at, 25  
*MARSDEN,* Mr. on the Sumatran lan-  
 guage, 145  
*Mars,* figure of, 4  
*Mary* queen of Scots, her reception at  
 Hardwick house, 361  
*Masks* from the Mosquito shore, 107  
*Mercury,* figure of, 3  
*MILES,* Dr. on the Exeter penates, 1—5  
*Mills* at Reading abbey, 62  
*Mimsfion,* Mr. William, 83  
*Monmouth* castle, 363  
*Mortimer,* 1



# INDEX

409

*Mortimer's hole*, 258. 277  
*Mosquito shore*, masks from, 107  
*Nynydd Dormina*, 29—31

## N

Navy of England, Edward VI. 216.  
 state of from the earliest times, 194.  
*Neworth castle*, 346  
*Neath*, 17  
*Newark castle*, 316—321  
*Newcastle castle*, 310  
*Nidum*, 16  
*Nine ladies*, 112  
 Noon, whence derived, 151—153  
*Norman castles*, 257—361  
 NORRIS, Mr. on the Roman congius,  
 221—226, amphora, 227—230  
*Nottingham castle*, 257

## O

*Ode*, earl of Champagne, 45  
*Ogmore*, river, 27  
*Old Castle*, 13—*chapel*, 83  
*Oldwist*, 294  
*Ordinance*, antient English, 188—206

## P

*Pan sand*, 121  
*Pan pudding rock*, Roman ware found  
 there, 121. 125. 392  
*Palmirene coins* illustrated, 130—132  
*Paterae* found off the coast of Kent, 123.  
 126. 392  
*Pavement*, tessellated, 13  
 REGGE, Mr. on the plague in England,  
 79—on the commencement of day  
 among the Britons and Saxons, 150  
 —153  
*Pembroke castle*, 363. 364  
*Penates*, Roman, found at Exeter, 1  
*Penshurst*, 360. 369  
*Percy arms*, 340  
*Peter the Great*, pedestal of his statue,  
 59  
*Picture of Henry VIII's embarkation*, 179

*Picture-writing* among the Indians, 159  
*Pillar*, inscribed, 22—25  
*Pipe*, earthen, 19—antient, of earth  
 glazed, 265. 266  
*Plague* in England and Derbyshire, 80,  
 at Chesterfield, 80, Enfield, 88, how  
 conveyed, 82  
*Plants*, fossil, 36—37  
*Pliny*, his account of the temple of Diana  
 at Ephesus illustrated, 69—75  
 —on the antient dials, 134  
*Ploemmel*, 144  
*Plumpton*, Nigell, his monument, 338  
*Pontefract castle*, 311  
*Potters names*, various, on the Roman  
 earthen ware found on the coast of  
 Kent, 124. 392  
 POWNALL, Mr. his account of Great  
 upon Little, 54—60, his account of  
 the Roman earthen ware controverted,  
 121—129, defended, 392. his obser-  
 vations on the Croyland stone, 394  
*The Prince*, a man of war, 209  
*Prisons* in castles, 308  
*Pronunciation* of the antient French lan-  
 guage, 76—78  
*Prospects* in Wales, 29  
*Punctuabice*, 15

## R

*Ragland castle*, 370  
*Ratoflabius*, 15  
*Reading*, abbey, observations on, 61—  
 gate, 247  
*Redman's tomb*, 334  
*Rejang* writing, 156  
*Rystrumel* a Norman castle, 291  
*Rbenny*, 15  
*Rbudland castle*, 363  
*Richard II.* his prison at Pontefract cas-  
 tle, 313—at Knaresborough castle, 26  
 —probably starved to death, 314—  
 corps exposed, 26—funeral, ib.—skull  
 at Westminster abbey, 315—portrait  
 in Froissart, 315—his residence at  
 Rudland and Flint, 363  
*Richmond*, 361  
*Rocheſter*

- Rochester* castle, 296—observations on, by Mr. Denne, 381. 391—treasury tower, 296  
 ROGERS, Mr. on Mosquito masks, 107  
 Roger bishop of Salisbury, 317  
 ROOKE, Mr. his account of druidical remains in Derbyshire, 110—115  
*Rosilly* bay, 34  
 Round churches, their origin, 168—built by the Templars, 172  
 Round table, a keep so called, 328  
*Rowter*, 110. 111  
*Rumney*, 15
- S
- Saxon castles, 244—idols, 248—361. inscription, 10—towers, 361  
*Scopas*, 70—72  
*Seisun*, 155  
 Sea, its incroachments, 26  
 Seal, Roman, 11—of John Holland of Exeter, 203—of Richard duke of Gloucester, 303  
*Segontium*, 8  
 Sepulchre holy, church of, at Jerusalem, 168, 169—others built on the model, 172—church at Cambridge, 173  
*Seton*, }  
*Settun*, } 53  
*Shakespeare*, his French, 76  
 ———— passage in, illustrated, 371  
 Ships of war in England, 195—furnished by the Cinque ports, 295—on English coins, 203—and seals, 203  
 Skeleton in stone, 29  
*Skusear* isle, 27  
 Somner, Mr. his mistake about the bearings of Canterbury castle, 306  
*Spofford* castle, 337—church, monument in, 337—338  
*Snack*, }  
*Snecca*, } a ship, 119  
*Sneck*, }  
*Snehia*, 120  
*Snicks*, 120  
*Stanton Moor*, 110
- Stone inscribed, 22—24—25—circle of, 29—pillar, 30—heap, 31—called Great upon Little, 54—60, immense removed, 59  
 STRANGE, Mr. his account of antiquities in Monmouthshire, 6  
*Styr*, 47  
 Sudatory, 11  
*Sudbrook* Roman camp, 7  
*Sumatran* language, 154
- T
- Taloire*, antient dial found at, 133  
*Tapeoath* hill, 45  
 Temple of Diana at Ephesus, 67—70, Jupiter at Olympia, 70—Paestum and Sicily, 70—72, Minerva, 71. 72—Theseus, 72, Bacchus, 74, antient ones open at top, 71  
 Templars first built round churches, 172  
*Templum horologiaria*, 135  
*Tickhill* castle, 266—269  
*Tolmen*, 111  
 Tomb in Harewood castle, 330—336  
 Tophus used in Reading abbey, 63  
 TOPHAM, Mr. his account of Esnecca, 119, of Henry VIII's embarkation, 179  
*Torfeckan* castle, 364  
*Trajectus Augusta*, 7  
*Trebaried*, 18  
*Tregathaw*, 25  
*Trematon* castle, Norman work, 291  
*Tullianum*, a dismal prison, 313  
*Tunbridge* castle, 269—297
- V
- Vaughan family, 28  
*Venta*, 12  
*Venus Marina*, figure of, 73  
 Vessel, Roman, 18  
 Vitrified fortifications in Scotland, 89—99—Wales, 101  
*Vitruvius*, his account of dials, 135—139—143  
 Urns,

# I N D E X.

411

Urns, Roman, 9  
*Ulf*, 41—his horn, 42—donations to  
 York, 42—his sons, 47, 48.

## W

*Warwick* castle, 346  
 Water dials, 143  
*Westminster* palace still complete, 365  
 hall, 366  
*Wickham*, William, engaged to furnish  
 ships of war, 198  
*William*, son of *Ulf*, 49.

*William* the Conqueror, did not dispossess  
 all landholders, 50-51  
 WINDHAM, Mr. his criticism on the  
 temple of Diana at Ephesus, 67-75  
 Window, small, in ancient halls, 368,  
 369-372  
*Windsor*, picture described, 179  
 castle, 328  
 WOIDE, Mr. his illustration of Palmy-  
 rene coins, 130-132  
*Wormshead* point, 34-36  
 Writing by pictures, 159  
 Wykeham, William of, 327.

## DIRECTIONS

# DIRECTIONS to the BOOKBINDER.

Plate	Page
I. Penates found at Exeter,	21
II. } Antiquities in South Wales,	22. 24
III. }	
IV. Different views of Wormshead Point near the village of Rosilly in the Hundred of Gower in Glamorgan-shire,	35
V. Aldborough church and inscription,	40
VI. Great upon Little,	55
VII. Plan of Reading Abbey,	61
VIII. } Temple of Diana at Ephesus,	73, 74
IX. }	
IX. Village of Dun-o-deer,	93
X. Plan of Dun-o-deer,	93
XI. XI*. Marks from the Musquito Shore,	107
XII. S. and S. W. view of Rowter rocks,	} 111
XIII. N. W. view of ditto---Bradley rocks,	
XIV. Rock basons---Hermitage at Carcliffe,	
XV. Druidical circles of stone on Stanton Moor,	112
XVI. Stones and camp on Stanton Moor,	113
XVII. Gorse Stone.—Andle Stone,	114
XVIII. Rocks on Stanton Moor,	114
XIX. Ancient cross in Bretagne,	145
XX. The church of the Holy Sepulchre in Cambridge,	173
XXI. Plan of the Port of Dover,	188
XXII. The ship Harry Grace a Dieu,	208
XXIII. Connisborough castle in Yorkshire,	240
XXIV. Windows, arches, &c. in Connisborough castle,	244
XXV. Plan of ditto,	246
XXVI. Saxon door ways,	246
XXVII. Castleton castle,	252
XXVIII. } Clifford's tower at York,	} 260
XXIX. }	
XXX. Plan of Lincoln castle,	264
XXXI. Plans of Tickhill and Tunbridge castles,	267
	XXXII.



# DIRECTIONS to the BOOKBINDER.

Plate	Page
XXXII. Inside of Tunbridge castle, and plan of the ground floor of the tower, - - -	280.
XXXIII. Plans of the vaults and of the first floor in the tower of entrance at Tunbridge, -	284
XXXIV. Plan of the state apartment and section of a loop at Tunbridge, - - -	286
XXXV. Tower of entrance at Tunbridge castle,	288
XXXVI. Plan and sections of Canterbury castle, -	301
XXXVII. Window and crooked entrance in Canterbury castle, - - -	302
XXXVIII. Door-way and outside of window in Canterbury castle, - - -	303
XXXIX. Window and loop in Canterbury castle,	304
XL. Pontefract castle, - - -	312
XLI. Newark castle, - - -	312
XLII. Knaresborough castle, - - -	326
XLIII. Gothic door-ways and plan of Harewood castle in Yorkshire, - - -	326
XLIV. Door-ways in the cloysters at Westminster,	326
XLV. Great door-way and tomb in Harewood castle,	334
XLVI. Arms in Harewood castle, - - -	336
XLVII. Arms and tomb in Spofford church, -	338
XLVIII. Spofford castle, - - -	344
XLIX. Plan of Haddon house, - - -	358
L. In Haddon house, &c. - - -	360
LI. Great hall at Eltham, - - -	368 : 1
LII. S. W. end of the great hall at Eltham,	368 : 2
LIII. N. E. end of ditto, - - -	368 : 3
LIV. View } of an ancient gate in }	380.
LV. Elevation and section } Lincoln castle,	
LVI. Guthlac's cross at Croyland, - - -	398

# ERRATA.

Page. Line.

- 86 3 for Walton read Fletcher.
- 117 5 for Luxon' read Luxov'.
- 208 3 read Mr. Kerrich fellow of that college.

Plates LIV. and LV. not being delivered till after the volume was printed;  
 376 14 after Society add an asterisk referring to Pl. LIV. below,  
 and in line 21 read Pl. LV.

WORKS published by the SOCIETY OF ANTIQUARIES.

VETUSTA Monumenta, quae ad Rerum Britannicarum Memoriam conservandam Societas Tabulis 105 aeneis incidi curavit; cum Explanationibus necessariis. Folio. Price in Sheets 7 *l*.

The Plates may also be had separately.

Tables of English Silver and Gold Coins, from the Norman Conquest to the present Time; illustrated with 67 Copper Plates; together with the Weights, intrinsic Values of, and Remarks upon, the several Pieces. Quarto. Price in Sheets 2 *l*. 2 *s*.

Five Dissertations. Quarto. Price 7 *s*. *videlicet*,

One on Domesday Book, } By P. C. Webb, Esquire.  
One on Danegeld,

Two on the Heracleian Table, by Mr. Webb and Dr. Pettingal.

One on the *Tasfia*, by Dr. Pettingal.

*Archaeologia*, or Miscellaneous Tracts relating to Antiquity; in Five Volumes Quarto. Price in Sheets 5 *l*. 15 *s*.

These may also be had separately; *videlicet*,

Vol. I. 15 *s*.

Vol. II. 15 *s*.

Vol. III. 18 *s*.

Vol. IV. 1 *l*. 1 *s*.

Vol. V. 1 *l*. 1 *s*.

Vol. VI. 1 *l*. 5 *s*.

Print of *Le Champ de Drap d'Or*, or the Royal Interview of Henry VIII. and Francis I. between *Guines* and *Ardres*, in the Year 1520; with an Historical Description thereof in Letter Press. Price 2 *l*. 2 *s*.

Print of Francis Ist's Attempt to invade England, Anno 1544; from an Historical Painting at Cowdry in Suffex, with a Description in Letter-Press. Price 1 *l*. 5 *s*.

Print of the Embarkation of King Henry VIII. at Dover, May 31, 1520, preparatory to his interview with the French King Francis I. from the original picture 12 feet and 1 inch in length, and 6 feet 5 inches in height, preserved in the royal apartments in Windsor Castle, with an historical description. Price 1 *l*. 11 *s*. 6 *d*.

VOL. VI.

I i i

A CATA-





A C A T A L O G U E of P R I N T S  
INGRAVED AND PUBLISHED BY THE  
SOCIETY of ANTIQUARIES of LONDON.

## VOLUME I.

Numb.		Price.		
		l.	s.	d.
	THE general Title and Catalogue in Latin.	0	1	0
1.	A brass Lamp, found at St. Leonard's hill near Wind- for.	0	1	0
2.	Ulphus's Horn, preserved in the cathedral at York.	0	1	0
3.	The Font in St. James's church, Westminster.	0	1	0
4.	The portrait of King Richard II. from an ancient pic- ture lately in the choir of Westminster abbey.	0	2	0
5.	Three ancient Seals, with their reverses; the first of Cottingham abbey in Yorkshire; the second of Clare hall in Cambridge; and the third the chapter-seal of the church of St. Etheldred at Ely.	0	1	0
6.	The ruins of Walsingham priory, in Norfolk.	0	0	9
7.	Waltham Cross.	0	1	0
8.	A Plan of the remaining walls and city of Verulam.	0	1	0
9—12.	Four views of the ruins of Fountain abbey, in York- shire.	0	3	0
13, 14.	Three views of the gate of St. Benner's abbey at Holm, in Norfolk.	0	2	6
15.	The tomb of Robert Colles and Cecily his wif, at Foulsham in Norfolk.	0	0	6
16.	The Shrine of King Edward the Confessor in West- minster abbey.	0	2	0
17.	The North front of the gate at Whitehall.	0	1	0
18.	The North front of King's street gate in Westminster.	0	1	0
19.	Plans of the two preceding gates.	0	0	6
I i i 2		1	0	3

Numb.		Price.		
		l.	s.	d.
	Brought over	1	0	3
20.	Coins of K. Henry VIII. Edward VI, Q. Elizabeth, and K. James I. Also a portrait of Q. Elizabeth, from a painting in enamel.	0	1	0
21—26.	The Tournament of K. Henry VIII. Feb. 12, 1510; from an ancient roll in the Herald's office.	0	6	0
27.	The ruins of Furness abbey, in Lancashire.	0	1	6
28—33.	The Barons' Letter in the reign of K. Edward I. Feb. 12, 1300, to Pope Boniface VIII; with the seals appendent.	0	6	0
34.	An antique brass head dug up at Bath in 1727.	0	1	0
35, 36.	Three views of Colchester castle in Essex, with the Ground-Plot.	0	2	0
37, 38.	Tables of English gold and silver coins, shewing the several species coined in each reign.	0	3	0
39.	Tutbury castle, in Staffordshire.	0	1	0
40.	Melborn castle, in Derbyshire.	0	1	0
41.	Lancaster castle.	0	1	0
42.	Pontefract castle, in Yorkshire.	0	1	0
43.	A gold Seal of Pope Alexander IV; with gold and silver coins struck in France and Flanders, relating to the history of England.	0	1	0
44.	Knaresborough castle, in Yorkshire.	0	1	0
45.	A Portrait of Dr. Tanner, Bp. of St. Asaph.	0	1	0
46.	Tickhill castle, in Yorkshire.	0	1	0
47.	A Plan of the Roman roads in Yorkshire.	0	1	0
48.	A Roman tessellated Pavement, found near Cotterstock in Northamptonshire, 1736.	0	1	6
49.	An ancient Chapel adjoining to the Bishop's Palace at Hereford.	0	1	0
50—52.	Three Roman tessellated Pavements, found at Wellow near Bath 1737.	0	5	0
53, 54.	Ancient Seals and their reverses, from the Dutchy-office of Lancaster.	0	2	6
55.	Gold and silver Medals of Mary Queen of Scots, and Lord Darnley; with others of Queen Anne, Prince Henry, and K. Charles I.	0	1	3
56.	Gold and silver Coins of several English Kings, Prince Edward, and Q. Elizabeth.	0	1	3
		3	2	3

Numb.		Price.		
		l.	s.	d.
	Brought over	3	2	3
57.	A Roman Sudatory found at Lincoln.	0	1	0
58—60.	Ancient Seals, from the Dutchy-office of Lancaster.	0	4	6
61.	Winchester Crofs.	0	1	0
62.	The Decree of the University of Oxford in 1534, against the jurisdiction of the Pope in England.	0	2	6
63.	A Plan of the Tower Liberties, from a survey in 1597.	0	2	0
64.	Chichester Crofs.	0	1	0
65.	Three views of the Roman <i>Retiarii</i> .	0	1	0
66—68.	The Portrait of Sir Robert Cotton, Bart. with two plates of Fragments of an ancient MS. of the Book of Genesis, illuminated with elegant figures; and an historical Dissertation thereon.	0	5	0
69.	The Standard of ancient Weights and Measures, from a Table in the Exchequer.	0	2	6
70.	A view of the Court of Wards and Liveries, as fitting; with a brief historical account of that Court.	0	5	0
Total		4	7	9

N. B. This FIRST VOLUME may be had together for four pounds.

## VOLUME II.

Numb.		Price.		
		l.	s.	d.
1—2.	PLANS for rebuilding the City of London after the great fire, in 1666.	0	2	0
3.	A Portrait of Mr. Holmes, keeper of the Records in the Tower.	0	1	0
4.	Ancient Deeds and Séals.	0	1	0
5.	A view of the Savoy from the River Thames.	0	1	0
6.	The Warrant for beheading K. Charles I.	0	1	6
7.	An ancient wooden Church at Greensted in Essex; the Shrine of St. Edmund the King and Martyr; and the Seal of the Abbot of St. Edmund's Bury in Suffolk.	0	1	0
8.	Glocester Cross.	0	1	0
9.	Three tessellated Roman Pavements, found at Winter-ton in Lincolnshire, 1747; with one at Roxby, in that neighbourhood.	0	2	0
10.	Doncaster Cross.	0	1	0
11.	Sandal castle in Yorkshire.	0	1	0
12.	The Savoy Hospital in the Strand, with the Chapel.	0	1	0
13.	Clithero castle in Lancashire.	0	1	0
14.	A Plan of the ground and buildings of the Savoy.	0	1	0
15—16.	A view of the cathedral church and Priory of Benedic-tines at Canterbury, with the effigies of Eadwin, a monk of that convent, between the years 1130 and 1174, both drawn by himself; with a printed account of the said drawings.	0	3	0
17.	An ancient Lamp in two views; a Vase, and two Bells, all of brass.	0	1	0
18.	Silenus and a Lamp.	0	1	0
19.	Third seal of Canterbury Cathedral, and a Mantle-piece at Saffron Walden.	0	1	6
20.	Brass Trumpets, and other instruments found in Ire-land; and a shield found at Hendinas in Shropshire; with an explanatory account.	0	2	0
21—22.	An antique bronze figure, from the collection of the late Mr. Hollis, with an explanation.	0	5	0
23—24.	Two views of the old Palace at Richmond; with an ac-count thereof.	0	5	0
		<hr/>		
		1	14	0



Numb.

Price.

		s.	d.
	Brought over	1	14 0
25.	View of the Palace of Placentia at Greenwich; with an account thereof.	0	2 6
26.	The East window of St. Margaret's Westminster.	0	5 0
27.	View of the old Palace at Hampton Court; with an account thereof.	0	4 0
28.	Portrait of Dr. Lyttelton, Bp. of Carlisle, mezzotinto.	0	5 0

Seven plates of ancient monuments in Westminster Abbey,  
viz.

29.	Front of the monument of Aveline Countess of Lancaster.	}	0	10	6
30.	The cumbent figure of Aveline.				
31.	The undervaulting and ornaments of the tomb.				
32.	The North front of K. Sebert's monument.				
33.	The figures of Sebert and Henry III.				
34.	Heads and ornaments on Sebert's monument.	}	0	1	0
35.	The tomb of Anne of Cleves.				
Total			3	1	0

All the Numbers of this SECOND VOLUME may be had together  
for three pounds.

Prints engraved by the late Mr. GEORGE VERTUE, now the property  
of the SOCIETY of ANTIQUARIES.

	Price.
	l. s. d.
A plan of London in Q. Elizabeth's time, copied by Mr. Vertue 1748, in 8 plates.	0 6 0
The first sett of Mr. Vertue's historic prints, consisting of four plates, with descriptions.	
Henry VII. and his Queen; Henry VIII. and Lady Jane Sey- mour.	}
Procession of Q. Elizabeth to Hunsdon house.	
The Cenotaph of Lord Darnley; with James I. when a child, and the Earl and Countess of Lenox, &c. praying by it.	
The battle of Carberry Hill at large.	
	1 3 6

The second set, consisting of the five following prints.

Three children of Henry VII.			
Charles Brandon Duke of Suffolk, and Mary Queen of France.	}	3	6
Frances Dutchess of Suffolk, and Adrian Stoke, her second husband.			
Lady Jane Grey.			
K. Edward VI. granting the Palace of Bridewell for an Hospital.			
Charles I. and his Queen.		0	5 0
Plan and elevation of the Minor Canons' houses at Windsor.		0	1 0
Lincoln's Inn chapel, with the Ambulatory.		0	2 6
Plan of Whitehall.		0	2 0
Chichester Cross.		0	2 0

Portrait of Sir John Hawkwood. 0 1 6

*Le Champ de Drap d'Or*; or the interview of K. Henry VIII. and Francis I. between Guines and Ardres, 1520; from an original painting at Windsor, with an historical account. } 2 2 0

The incampment of the English forces near Portsmouth, together with a view of the English and French fleets at the commencement of the action between them July 19, 1545, from an original painting at Cowdry, with an historical account. } 1 5 0

The Embarkation of King Henry VIII. at Dover, May 31, 1520, preparatory to his interview with the French King Francis I. from the original picture 12 feet and 1 inch in length, and 6 feet 5 inches in height, preserved in the royal apartments in Windsor Castle, with an historical description. } 1 11 6

